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TM 11-223

TECHNICAL MANUAL

WAR DEPARTMENT

HS-164

SIGNAL EQUIPMENT

DIRECTORY,

POWER UNITS

UNCLASSIFIED-WD CIR 366, 1945

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No person is entitled solely by virtue of his grade or position to knowledge or possession of classified matter. Such matter is entrusted only to those individuals whose official duties require such knowledge or possession. (See also paragraph 23b, AR 380-5, 15 March 1944.)



SIGNAL EQUIPMENT DIRECTORY

POWER UNITS

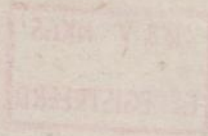


WAR DEPARTMENT • APRIL 1945

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(See also paragraph 23b, AR 380-5, 15 March 1944.)



WAR DEPARTMENT
WASHINGTON 25, D. C., 30 April 1945

TM 11-223, Signal Equipment Directory, Power Units, is published for the information and guidance of all concerned.

[AG 300.7 (11 Apr 45)]

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Refer to FM 21-6 for explanation of distribution formula.

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FOREWORD

SIGNAL EQUIPMENT DIRECTORY, POWER UNITS

This directory presents in condensed loose-leaf form the essential information on Signal Corps power units. In each case, a general description and an illustration of the power unit are presented on the front of the sheet, and detailed characteristics of engine and generator are shown on reverse side of the sheet.

Nomenclature of power units is displayed prominently, with type numbers running consecutively. The alphabetical and numerical sequence of type numbers simplify location of the description of any power unit covered in the directory. To simplify the addition of new sheets to the directory, or the withdrawal of old sheets, there are no page numbers.

Note. All information in this directory is based on the latest data available 1 March 1945.

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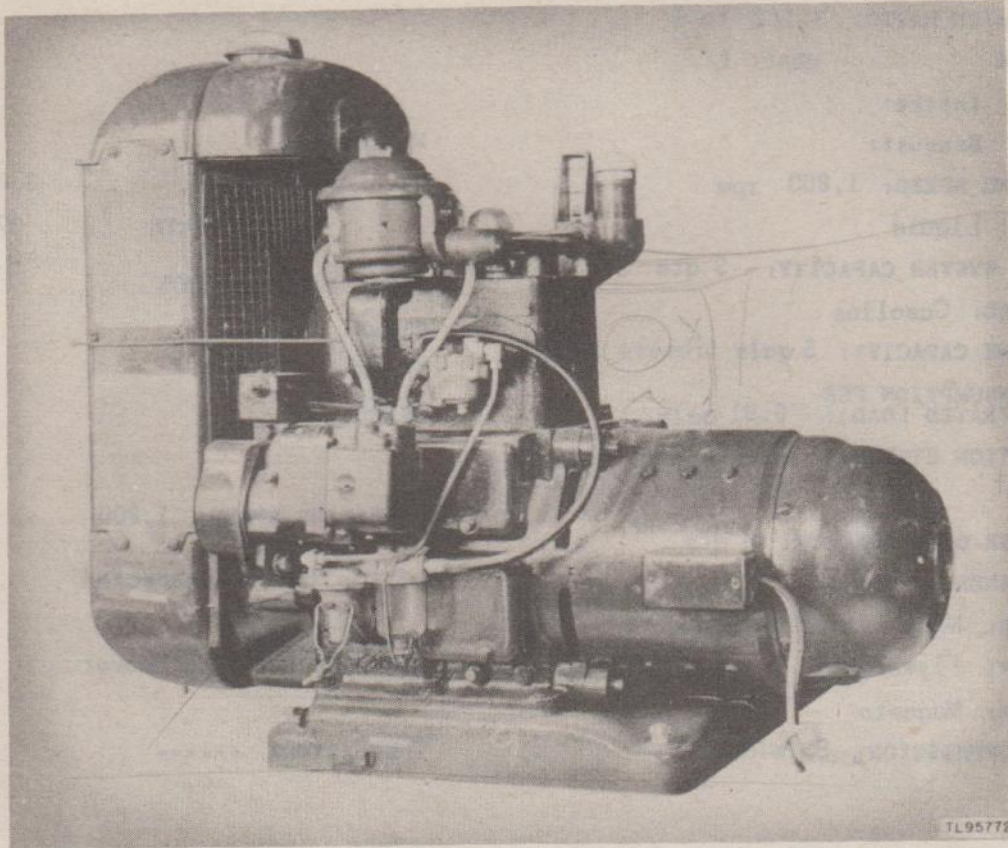
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STATUS: SEE BELOW *

POWER UNIT

ONAN-W3M-13

FOR USE WITH FIXED-PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT ONAN-W3M-13**

Power Unit ONAN-W3M-13 is an electric generating set consisting of a 2-cylinder, 4-cycle, L-head, liquid-cooled, manual-starting (crank) gasoline engine, directly connected to an a-c generator, self-excited.

The engine is rated 7 horsepower at 1,800 revolutions per minute, and consumes approximately 0.81 gallon of fuel per hour at rated load.

The generator is rated 3 kilowatts; 60 cycles, single phase, 115 volts, 27.3 amperes at 100 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue. No more to be procured.

POWER UNIT ONAN-W3M-13

ENGINE CHARACTERISTICS

MAKE: D. W. Onan & Sons (gasoline)
 MODEL: W3M
 RATED: 7 HP @ 1,800 rpm
 CYLINDERS: 2 BORE: 3" STROKE: 2-3/4"
 COMPRESSION RATIO: 5-1/2 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake:
 Exhaust:
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 9 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals (remote tank)
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.81 gals
 LUBRICATION SYSTEM: Pressure and spray

 CRANKCASE OIL CAPACITY: 6 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (crank)
 GOVERNOR: Flyweight
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D. W. Onan & Sons
 MODEL: W2C
 TYPE OF GENERATOR: A-c

 RATING:
 3 KW 3,000 WATTS
 115 VOLTS 27.3 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Direct-connected

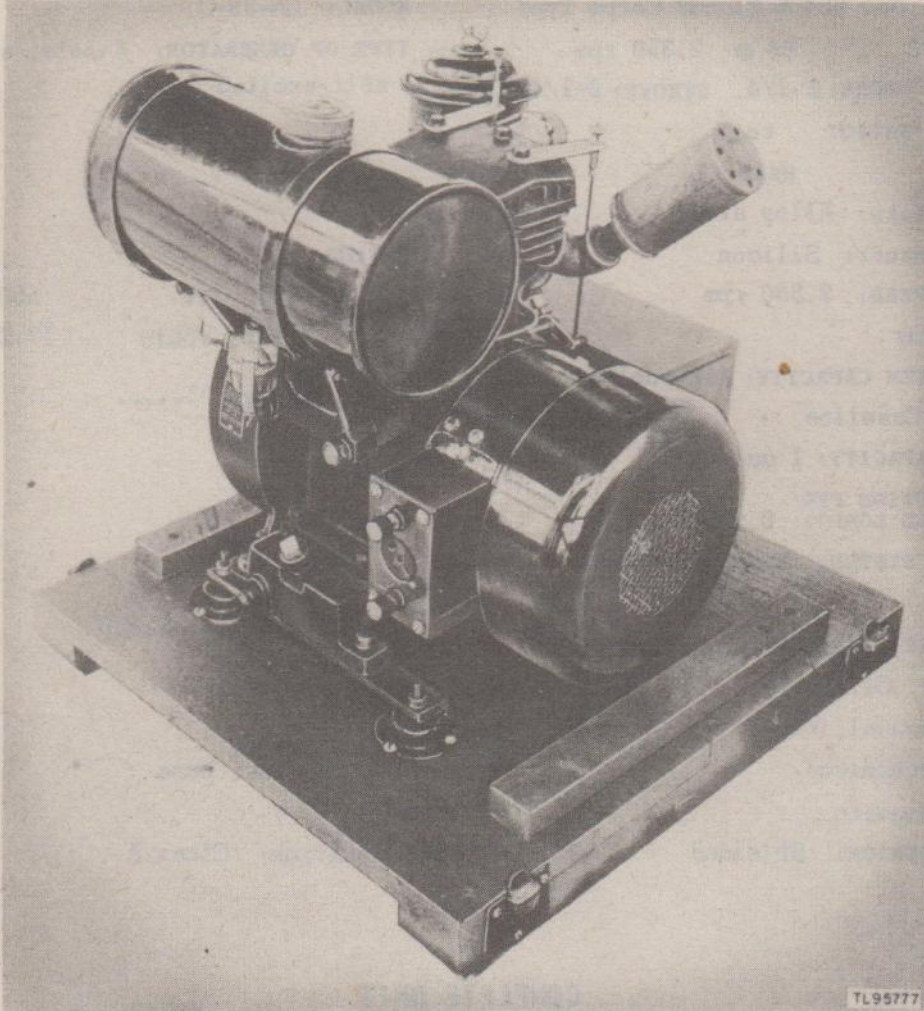
 NUMBER & TYPE
 OF BEARINGS: 1, Hoover

 INSULATION: -----

COMPLETE UNIT

LENGTH: 35" WIDTH: 16" HEIGHT: 30-1/2"
 WEIGHT: (NET) 450 lb WEIGHT: (CRATED) 630 lb

<p>INSTRUCTIONAL LITERATURE Instruction Book, Stock No. 3H4512.3/1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Plant Engineering Agency</p>
	<p>STOCK NO. 3H4512.3</p>

STATUS: Limited standard**POWER UNIT****DATE APPROVED:** 5 May 38**PE-HC-43****POWER UNIT PE-HC-43**

Power Unit PE-HC-43 is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope) gasoline engine directly connected to a d-c generator of the 4-pole, shunt-wound self-excited type.

The engine is rated at 1-1/2 horsepower at 2,350 revolutions per minute, and consumes approximately 0.2 gallon of fuel per hour at rated load.

The generator is rated at 550 watts, 32 volts, 17.2 amperes direct current.

The principal application of this power unit is the furnishing of power for Charging Set SCR-169.

POWER UNIT PE-HC-43

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: AP - No. 25466 Signal Corps Type
 RATED: 1-1/2 HP @ 2,350 rpm
 CYLINDERS: 1 BORE: 2-1/4 STROKE: 2-1/4
 COMPRESSION RATIO: to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silicon
 OPERATING SPEED: 2,350 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.2 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen-E-Motor
 MODEL: GN-39-C
 TYPE OF GENERATOR: 4-pole, shunt-wound,
 self-excited

 RATING:
 0.55 KW 550 WATTS
 32 VOLTS 17.2 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 2,350

 DRIVE: Direct

 NUMBER & TYPE
 OF BEARINGS: None

 INSULATION: Class A

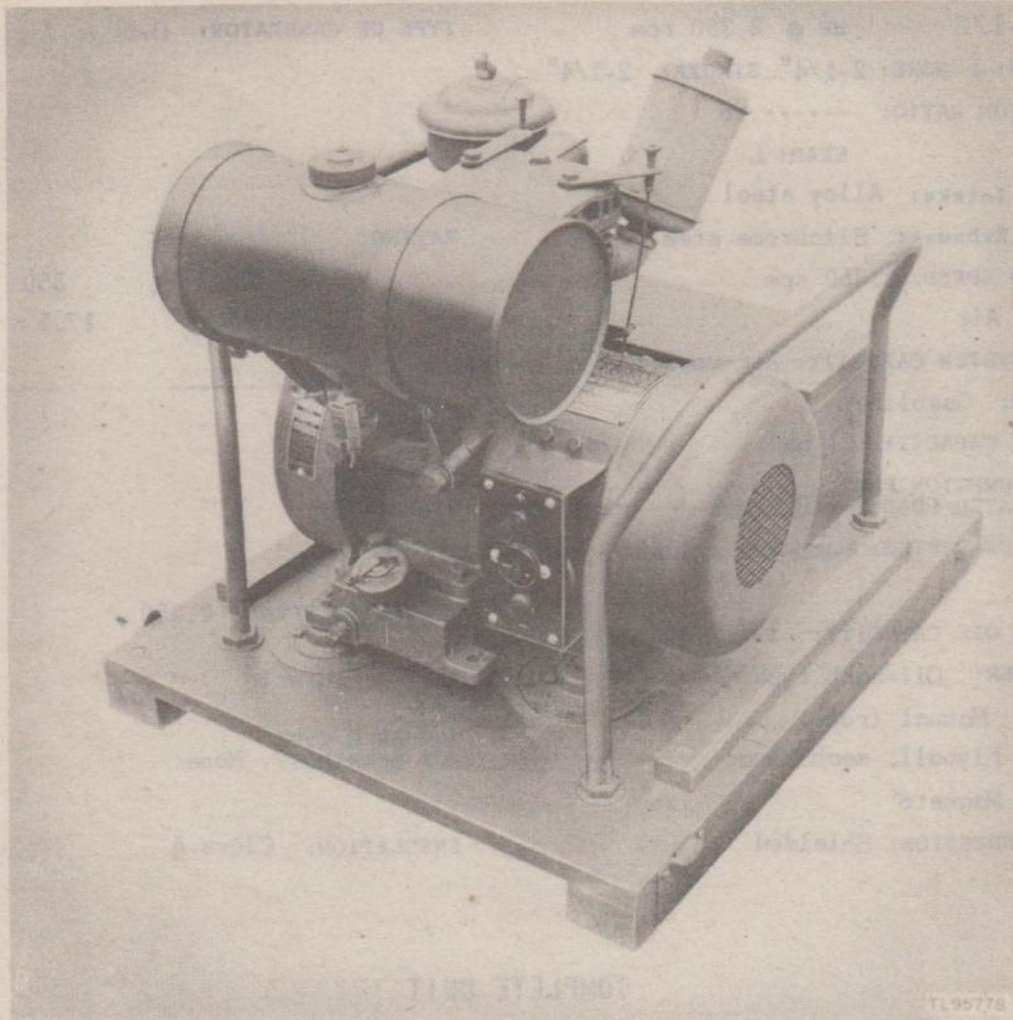
COMPLETE UNIT

LENGTH: 20-1/2" WIDTH: 22-1/2" HEIGHT: 24"
 WEIGHT: (NET) 133 lb WEIGHT: (CRATED) 153 lb

INSTRUCTIONAL LITERATURE TM 11-302	SECURITY CLASSIFICATION OF THIS EQUIPMENT:
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4543.2

STATUS: Limited standard

POWER UNIT

PE-HD,-HE,-HF,-HG,-HH-43**POWER UNIT PE-HD-43, -HE-43, -HF-43, -HG-43, -HH-43**

Power Unit PE-HD-43, -HE-43, -HF-43, -HG-43, -HH-43 is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine directly connected to a d-c generator.

The engine is rated at 1.75 horsepower at 2,350 revolutions per minute and consumes approximately 0.2 gallon of fuel per hour at rated load.

The generator is rated at 550 watts, 32 volts, 17.5 amperes direct current.

The principal application of this power unit is the furnishing of power for Charging Set SCR-169.

POWER UNITS PE-HD-43, -HE-43, -HF-43, -HG-43, -HH-43

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: AP. Type No. 208126
 RATED: 1-1/2 HP @ 2,350 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: ----- to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,350 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.2 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen-E-Motor Corp
 MODEL: MFCR's Model
 TYPE OF GENERATOR: D-c

 RATING:
 .55 KW 550 WATTS
 32 VOLTS 17.5 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 2,350

 DRIVE: Direct

 NUMBER & TYPE
 OF BEARINGS: None

 INSULATION: Class A

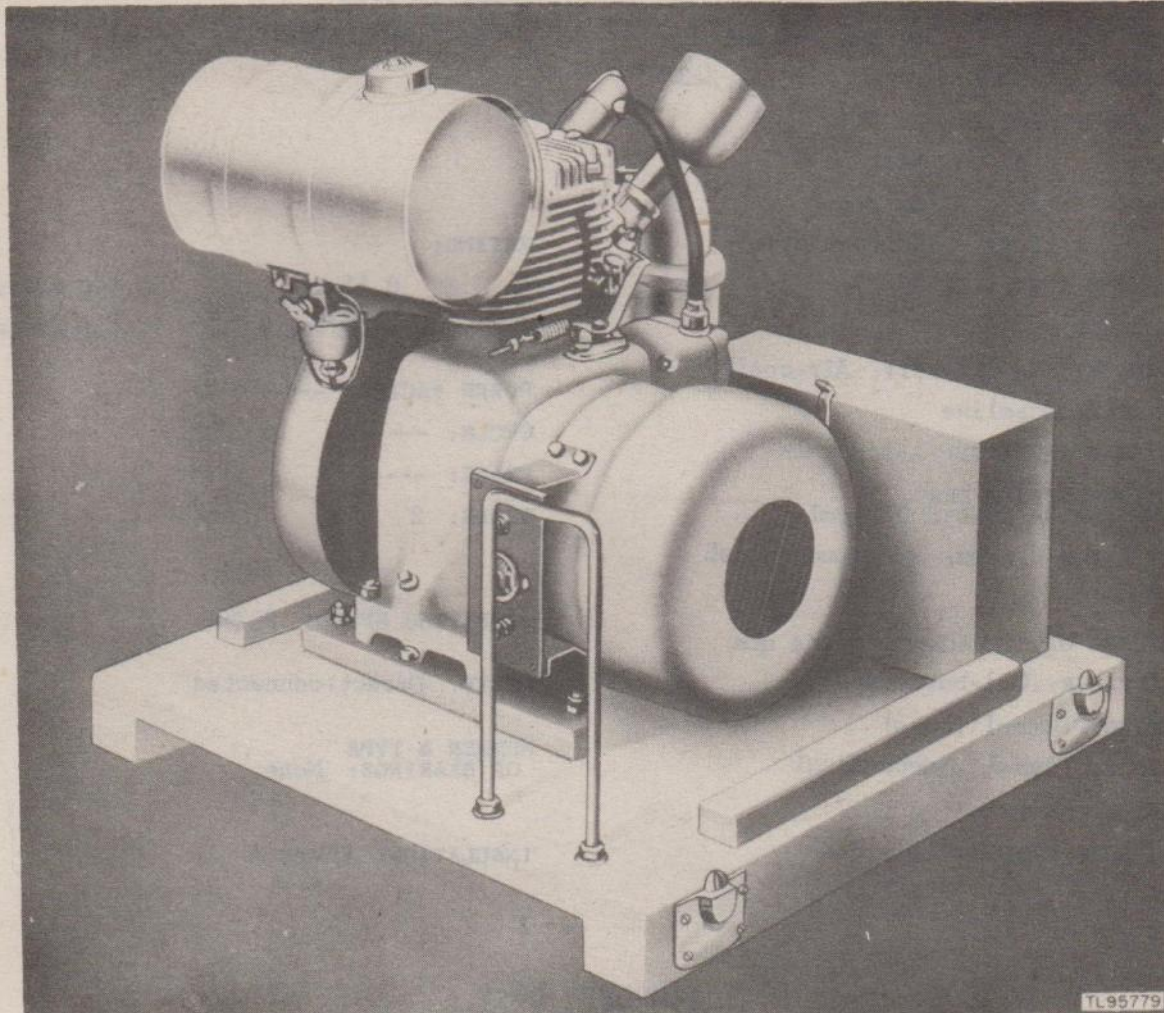
COMPLETE UNIT

LENGTH: 22-5/8" WIDTH: 20-3/8" HEIGHT: 22"
 WEIGHT: (NET) 137 lb WEIGHT: (CRATED) 161 lb
 TYPE OF HOUSING:

INSTRUCTIONAL LITERATURE PE-HD-43; HE-43; HF-43; HG-43: TM 11-302 PE-HH-43: TM 11-302H	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4543.3,4,5,6,7

STATUS: Limited standard

POWER UNIT

PE-HJ-43**POWER UNIT PE-HJ-43**

Power Unit PE-HJ-43 is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator.

The engine is rated 2.85 horsepower at 2,350 revolutions per minute and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator is rated at 550 watts, 32 volts, 17.5 amperes direct current.

The principal application of this power unit is the furnishing of power for Charging Set SCR-169.

POWER UNIT PE-HJ-43

ENGINE CHARACTERISTICS

MAKE: Wisconsin (gasoline)
 MODEL: AB
 RATED: 2.85 HP @ 2,350 rpm
 CYLINDERS: 1 BORE: 2-1/2" STROKE: 2-3/4"
 COMPRESSION RATIO: 5.1 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,350 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1-1/4 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.5 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-3/4 qts
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen E Motor Corp
 MODEL: G-3594
 TYPE OF GENERATOR: D-c

 RATING:
 0.55 KW 550 WATTS
 32 VOLTS 17.5 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 2,350
 DRIVE: Direct-connected

 NUMBER & TYPE OF BEARINGS: None

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 22-5/8" WIDTH: 23-1/2" HEIGHT: 24-1/4"
 WEIGHT: (NET) 129-1/2 lb WEIGHT: (CRATED) 175 lb

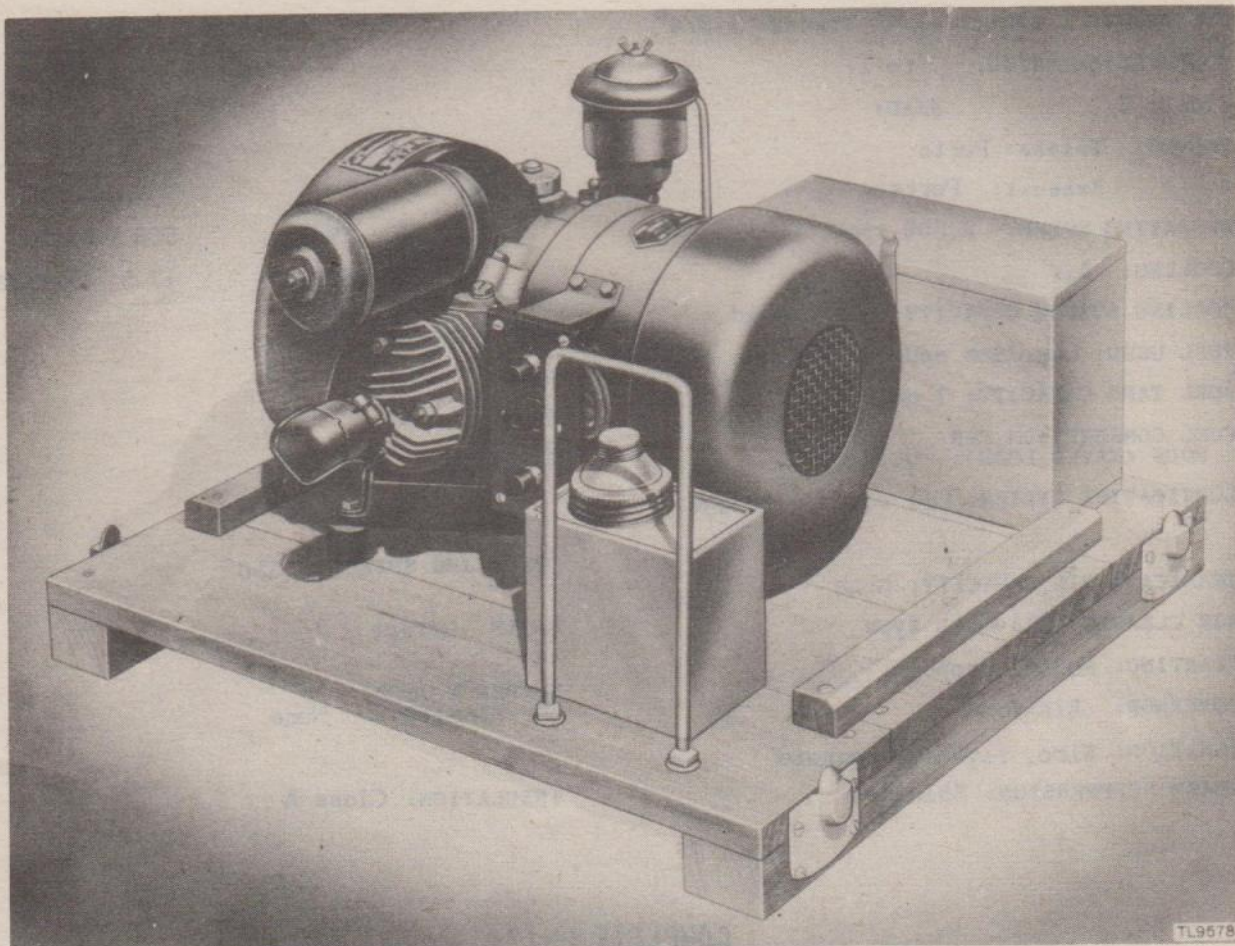
INSTRUCTIONAL LITERATURE TM 11-302	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4543.9

STATUS: Limited standard

POWER UNIT

PE-43-HK

(NOTE: THIS POWER UNIT ALSO ISSUED AS PE-HK-43)

**POWER UNIT PE-43-HK**

Power Unit PE-43-HK (also issued as PE-HK-43) is an electric generating set, consisting of a 1-cylinder, 2-cycle, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator.

The engine is rated 1.35 horsepower, at 2,350 revolutions per minute, and consumes 0.3 gallon of fuel per hour at rated load.

The generator is rated at 550 watts, 32 volts, 17.5 amperes direct current.

The principal application of this power unit is furnishing of power for Charging Set SCR-169.

POWER UNIT PE-43-HK (ALSO ISSUED AS PE-HK-43)

ENGINE CHARACTERISTICS

MAKE: Jacobsen Mfg Co
 MODEL: J-150
 RATED: 1.35 HP @ 2,350 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 1-3/4"
 COMPRESSION RATIO: to 1
 CYCLE: 2 HEAD:
 VALVES: Intake: Ports
 Exhaust: Ports
 OPERATING SPEED: 2,350 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline and oil mixed
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.3 gal
 LUBRICATION SYSTEM: Oil mixed with gas

 CRANKCASE OIL CAPACITY: None
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope)
 GOVERNOR: Air-vane
 IGNITION: Wico, flywheel magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen-E-Motor Corp
 MODEL: G-3594
 TYPE OF GENERATOR: D-c

 RATING:
 0.55 KW 550 WATTS
 32 VOLTS 17.5 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 2,350
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: None

 INSULATION: Class A

COMPLETE UNIT

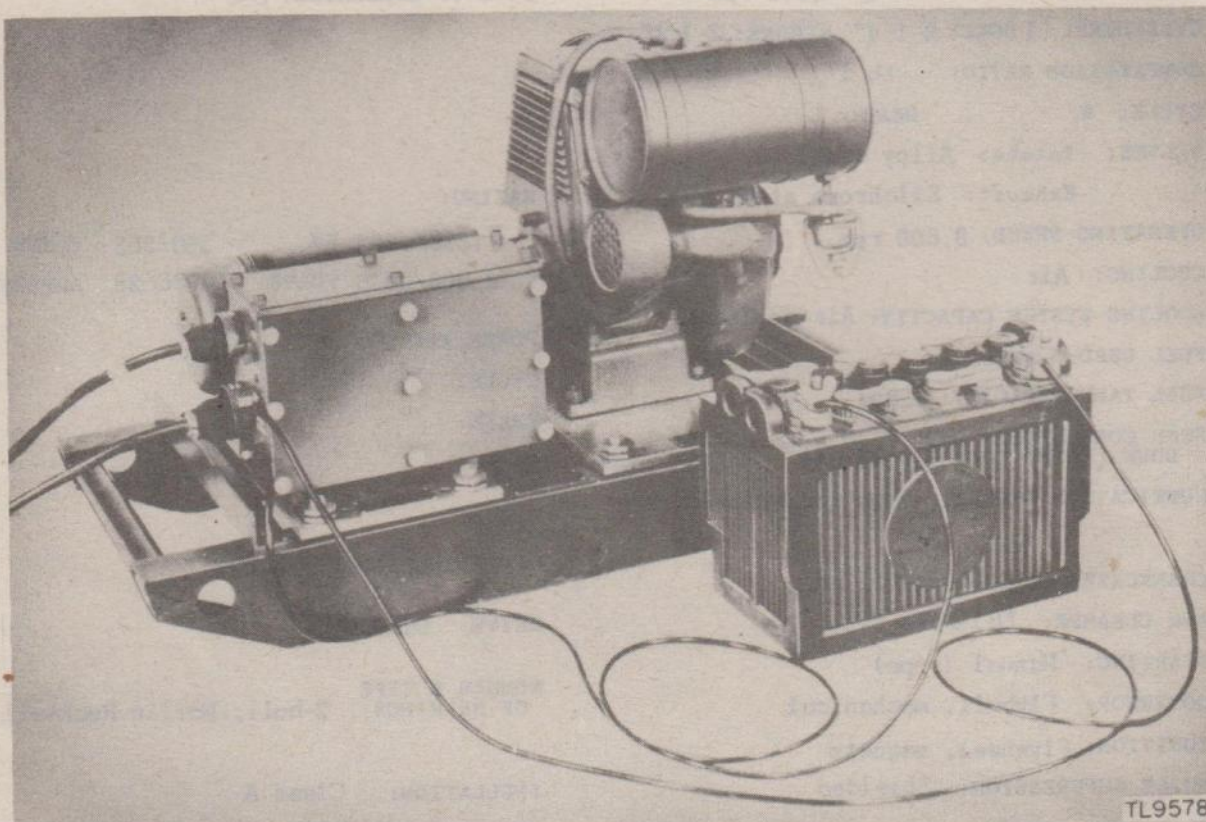
LENGTH: 22-5/8" WIDTH: 23-1/2" HEIGHT: 24-1/4"
 WEIGHT: (NET) 98-1/2 lb WEIGHT: (CRATED) 138-3/4 lb

INSTRUCTIONAL LITERATURE TM 11-302K	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4543.1Q

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 17 Oct 43

PE-49-A

POWER UNIT PE-49-A

Power Unit PE-49-A is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator of the dual-voltage type.

The engine is rated 1.5 horsepower at 3,600 revolutions per minute and consumes approximately 0.25 gallon of fuel per hour at rated load.

The generator has two windings; 350 watts at 1,000 volts, 0.35 amperes direct current, and 365 watts at 14.6 volts, 25 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-177 and SCR-188 at the higher voltage, and for the charging of storage batteries at the lower voltage.

NOTE: The generator serves as a starting motor for the engine when battery power is applied.

POWER UNIT PE-49-A

ENGINE CHARACTERISTICS

MAKE: Lauson Engine Co (gasoline)
 MODEL: RAY-866
 RATED: 1.5 HP @ 3,600 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 3,600 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: PM-632-G-M-20204
 TYPE OF GENERATOR: D-c

 RATING:
 .350/.365 KW 350/365 WATTS
 1,000/14.6 VOLTS 0.35/25 AMPERES

 POWER FACTOR:
 CYCLE:
 PHASE:
 WIRES:

 OPERATING SPEED: 3,600

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 2-ball, Marlin Rockwell

 INSULATION: Class A

COMPLETE UNIT

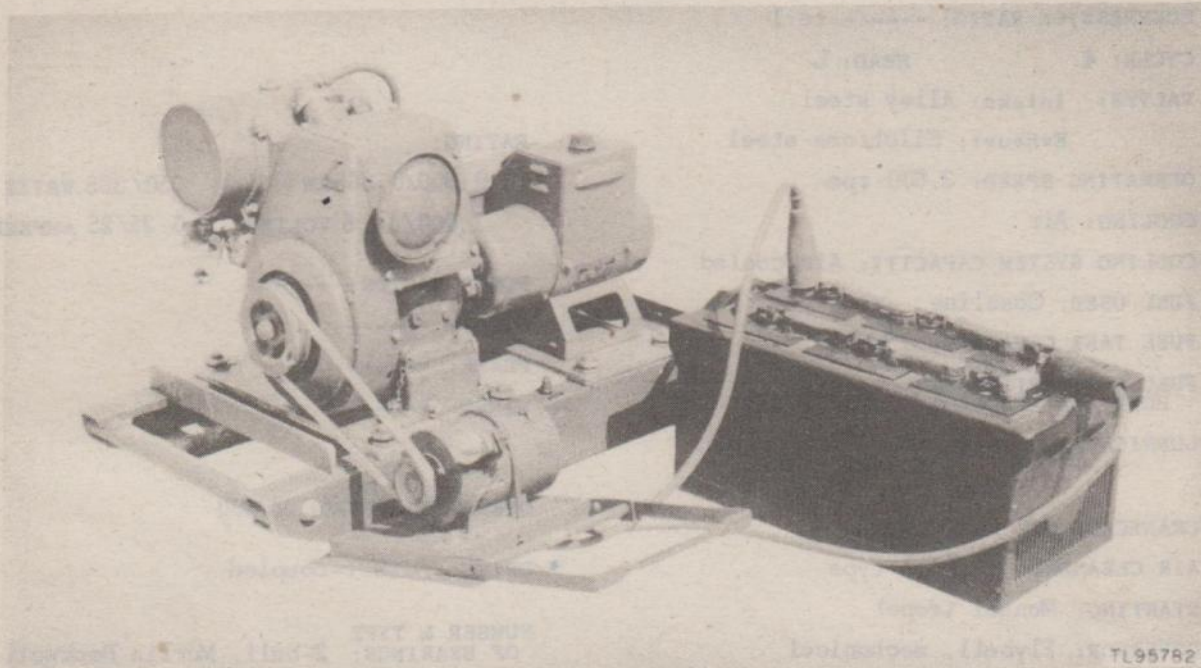
LENGTH: 35" WIDTH: 16" HEIGHT: 21"
 WEIGHT: (NET) 156 lb WEIGHT: (CRATED) 185 lb

INSTRUCTIONAL LITERATURE Instruction Book, Stock No. 3H4549A/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4549-A

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 17 Oct 43

PE-49-B

POWER UNIT PE-49-B

Power Unit PE-49-B is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator of the dual-voltage type.

The engine is rated 1.5 horsepower at 3,600 revolutions per minute and consumes approximately 0.25 gallon of fuel per hour at rated load.

The generator has two windings; 350 watts at 1,000 volts, 0.35 amperes, and 365 watts at 14.6 volts, 25 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-177 and SCR-188 at the higher voltage, and for the charging of storage batteries at the lower voltage.

NOTE: The generator serves as a starting motor for the engine when battery power is applied.

POWER UNIT PE-49-B

ENGINE CHARACTERISTICS

MAKE: Lauson Engine Co (gasoline)
 MODEL: RAY-873
 RATED: 1.5 HP @ 3,600 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: ----- to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 3,600 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: DMEL-632-G
 TYPE OF GENERATOR: D-c dual-voltage

 RATING:
 0.350/0.365KW 350/365 WATTS
 1,000/14.6 VOLTS 0.35/25 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

 OPERATING SPEED: 3,600

 DRIVE: Direct-coupled

 NUMBER & TYPE OF BEARINGS: 2-ball, Marlin Rockwell

 INSULATION: Class A*

COMPLETE UNIT

LENGTH: 35" WIDTH: 16" HEIGHT: 23"
 WEIGHT: (NET) 172 lb WEIGHT: (CRATED)

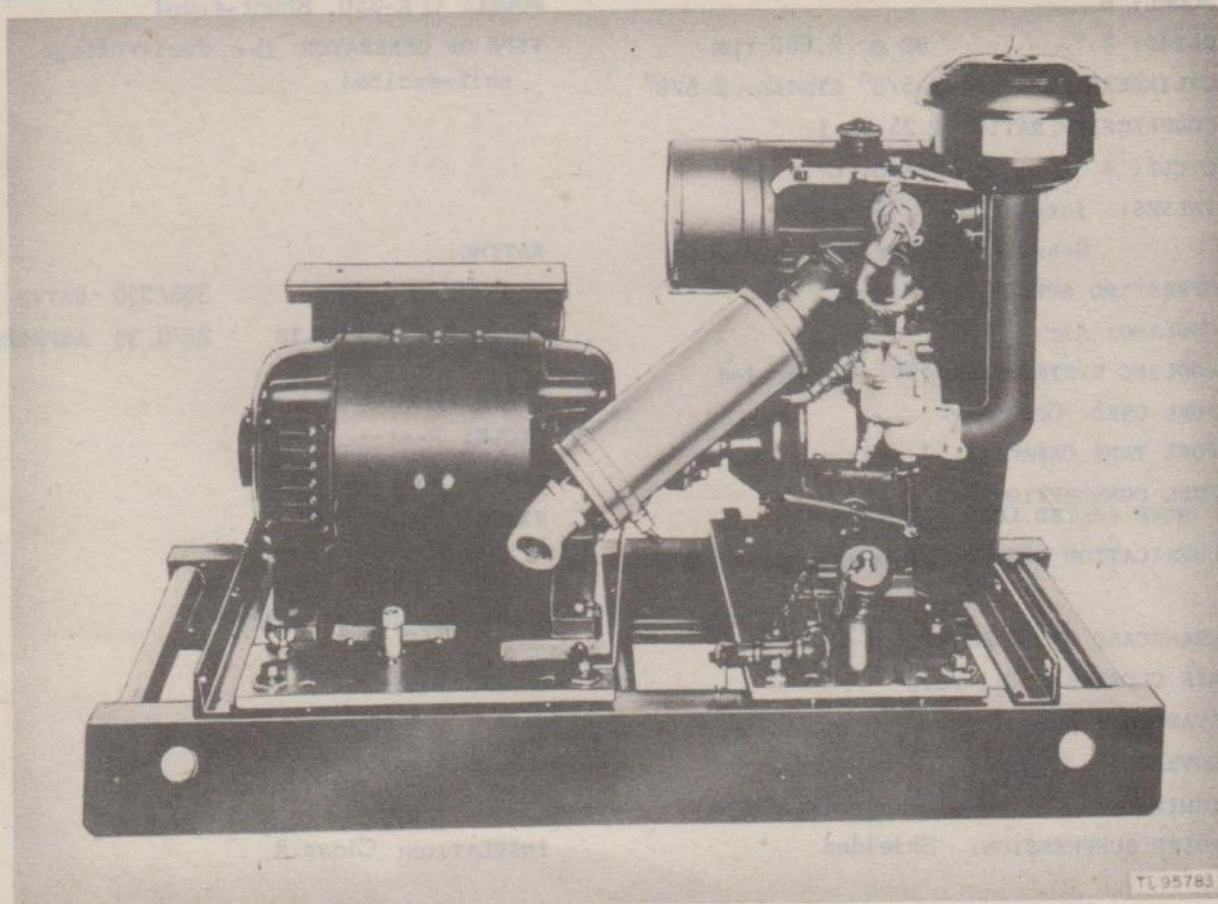
INSTRUCTIONAL LITERATURE Instruction Book, Stock No. 3H4549B/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY:
	STOCK NO. 3H4549B

STATUS: Standard

POWER UNIT

DATE APPROVED: 30 Apr 44

PE-49-C



POWER UNIT PE-49-C

Power Unit PE-49-C is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator of the dual-voltage type.

The engine is rated 2.7 horsepower at 2,650 revolutions per minute and consumes approximately 0.25 gallon of fuel per hour at rated load.

The generator has two windings; 350 watts at 1,000 volts, 0.35 amperes direct current, and 365 watts at 14.6 volts, 25 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-177 and SCR-188 at the higher voltage, and for the charging of storage batteries at the lower voltage.

NOTE: The generator serves as a starting motor for the engine when battery power is applied.

POWER UNIT PE-49-C

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: B
 RATED: 2.7 HP @ 2,650 rpm
 CYLINDERS: 1 BORE: 2-5/8" STROKE: 2-5/8"
 COMPRESSION RATIO: 4.25 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy Steel
 Exhaust: Silchrome
 OPERATING SPEED: 2,650 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen E Motor Corp
 MODEL: C K-350, Shunt-wound
 TYPE OF GENERATOR: D-c, dual-voltage self-excited

 RATING:
 0.365/0.350 KW 365/350 WATTS
 14.6/1,000 VOLTS 25/0.35 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

 OPERATING SPEED: 2,650

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: Ball

 INSULATION: Class A

COMPLETE UNIT

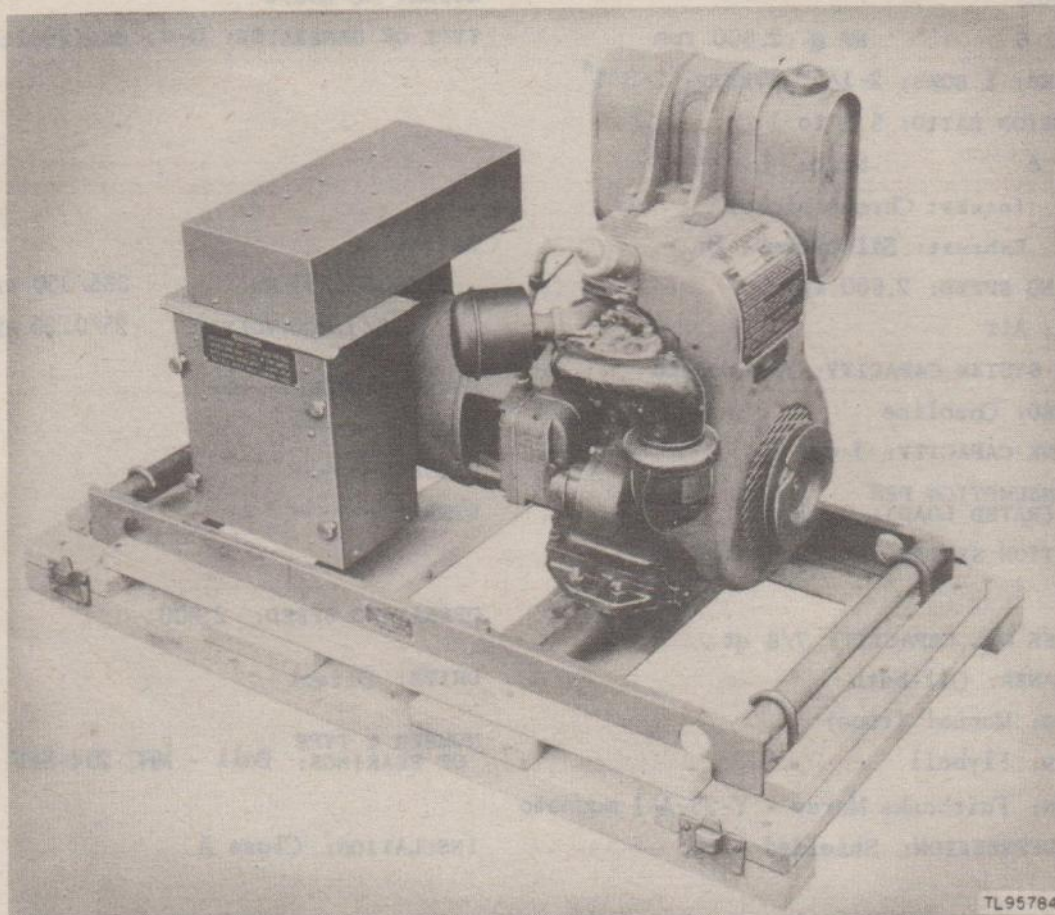
LENGTH: 36" WIDTH: 19" HEIGHT: 26"
 WEIGHT: (NET) 225 lb WEIGHT: (CRATED)

<p>INSTRUCTIONAL LITERATURE TM 11-920 Revised (when published) Instruction Book, Stock No. 3H4549C/1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4549-C</p>

STATUS: Standard

POWER UNIT

DATE APPROVED: 30 Apr 44

PE-49-D**POWER UNIT PE-49-D**

Power Unit PE-49-D is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator of the dual-voltage type.

The engine is rated 3.6 horsepower at 2,800 revolutions per minute and consumes approximately 0.25 gallon of fuel per hour at rated load.

The generator has two windings; 350 watts at 1,000 volts, 0.35 amperes direct current, and 365 watts at 14.6 volts, 25 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-177 and SCR-188 at the higher voltage, and for the charging of batteries at the lower voltage.

NOTE: The generator serves as a starting motor for the engine when battery power is applied.

POWER UNIT PE-49-D

ENGINE CHARACTERISTICS

MAKE: Wisconsin (gasoline)
 MODEL: APS
 RATED: 3.6 HP @ 2,800 rpm
 CYLINDERS: 1 BORE: 2-1/2" STROKE: 2-3/4"
 COMPRESSION RATIO: 5.1 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel
 Exhaust: Silchrome - B
 OPERATING SPEED: 2,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 7/8 qt
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball
 IGNITION: Fairbanks Morse - Y-35-A-1 magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: MS-28876
 TYPE OF GENERATOR: D-c, dual-voltage

 RATING:
 0.365/0.350 KW 365/350 WATTS
 14.6/1,000 VOLTS 25/0.35 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

 OPERATING SPEED: 2,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: Ball - MRC 204-SFF
 INSULATION: Class A

COMPLETE UNIT

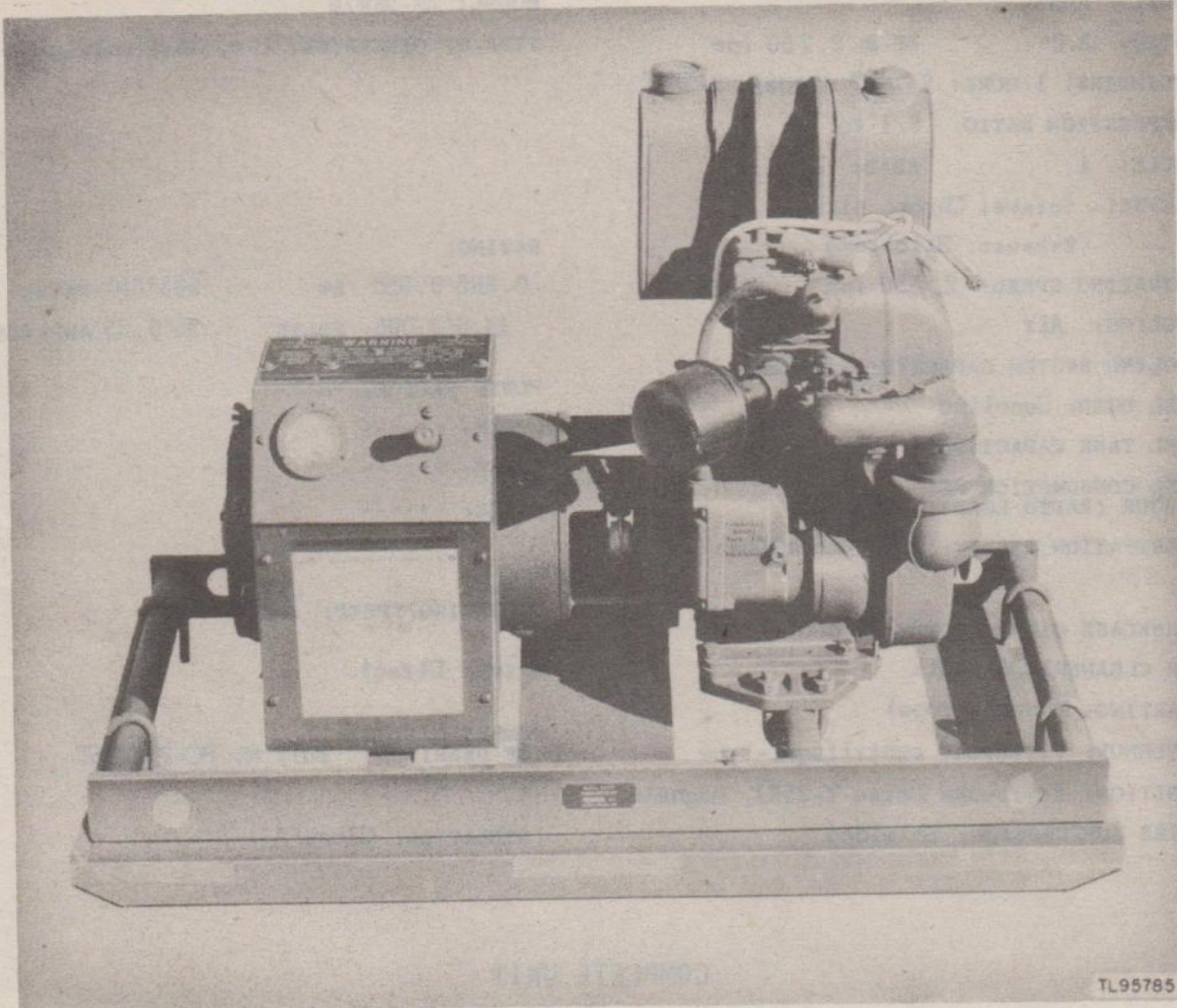
LENGTH: 42-1/2" WIDTH: 23-1/4" HEIGHT: 27"
 WEIGHT: (NET) 228 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-920 Revised (when published) Instruction Book, Stock No. 3H4549D/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4549-D

STATUS: Standard

POWER UNIT

DATE APPROVED: 30 Apr 44

PE-49-F

POWER UNIT PE-49-F

Power Unit PE-49-F is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator of the dual-voltage type.

The engine is rated 3.6 horsepower at 2,750 revolutions per minute and consumes approximately 0.25 gallon of fuel per hour at rated load.

The generator has two windings; 350 watts at 1,000 volts, 0.35 amperes direct current, and 365 watts at 14.6 volts, 25 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-177 and SCR-188 at the higher voltage, and for the charging of batteries at the lower voltage.

NOTE: The generator serves as a starting motor for the engine when battery power is applied.

POWER UNIT PE-49-F

ENGINE CHARACTERISTICS

MAKE: Wisconsin (gasoline)
 MODEL: ABS
 RATED: 3.6 HP @ 2,750 rpm
 CYLINDERS: 1 BORE: 2-1/2" STROKE: 2-3/4"
 COMPRESSION RATIO: 5.1 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel
 Exhaust: Silchrome
 OPERATING SPEED: 2,750 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 7/8 qt
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flywheel, centrifugal-type
 IGNITION: Fairbanks Morse Y-35A1, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: MS-28876
 TYPE OF GENERATOR: D-c, dual-voltage

 RATING:
 0.365/0.350 KW 365/350 WATTS
 14.6/1,000 VOLTS 25/0.35 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

 OPERATING SPEED: 2,700

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: Ball M. RC-204SFFF

 INSULATION: Class A

COMPLETE UNIT

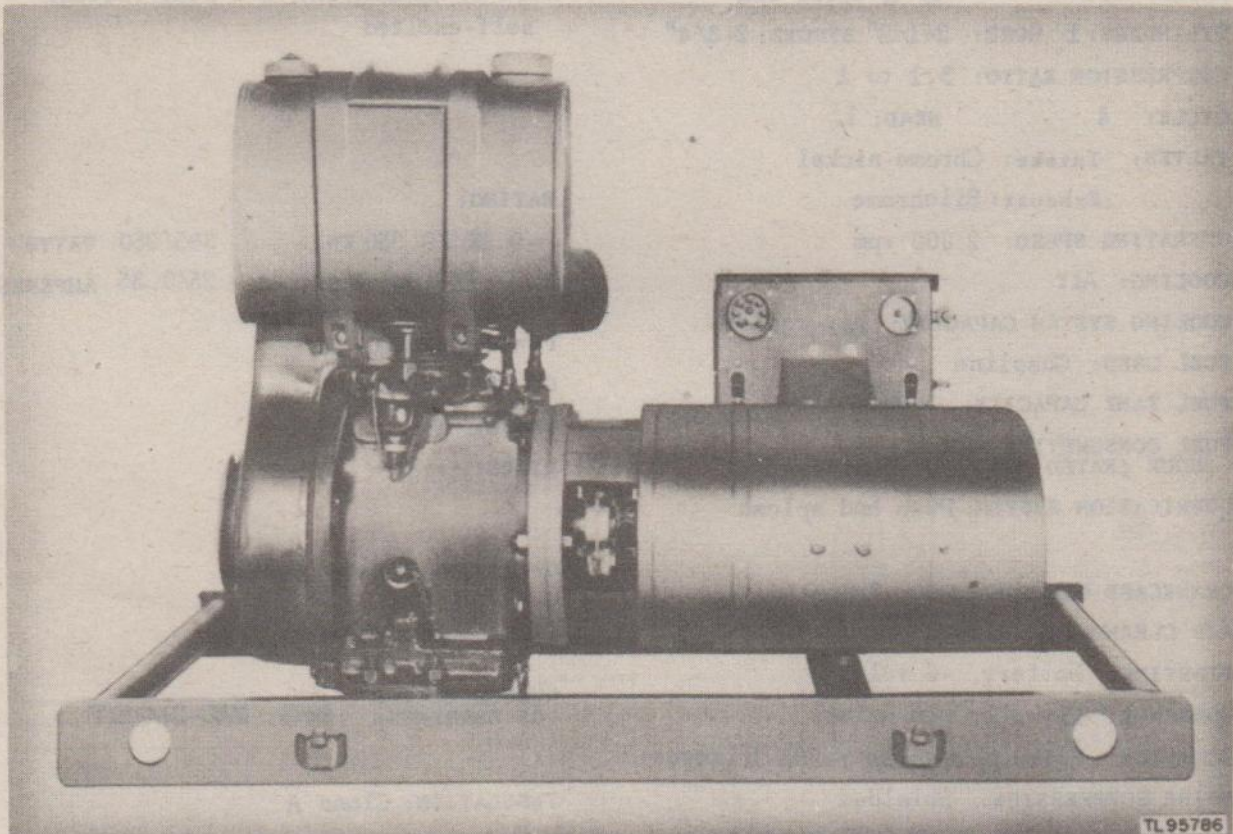
LENGTH: 42-1/2" WIDTH: 23-1/4" HEIGHT: 27"
 WEIGHT: (NET) 257 lb WEIGHT: (CRATED) 310 lb

INSTRUCTIONAL LITERATURE TM 11-920	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4549-F

STATUS: Standard

POWER UNIT

DATE APPROVED: 30 Apr 44

PE-49-G

POWER UNIT PE-49-G

Power Unit PE-49-G is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator of the dual-voltage type.

The engine is rated 3.6 horsepower at 2,800 revolutions per minute and consumes approximately 0.25 gallon of fuel per hour at rated load.

The generator has two windings; 350 watts at 1,000 volts, 0.35 amperes direct current, and 365 watts at 14.6 volts, 25 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-177 and SCR-188 at the higher voltage, and for the charging of storage batteries at the lower voltage.

NOTE: The generator serves as a starting motor for the engine when battery power is applied.

POWER UNIT PE-49-G

ENGINE CHARACTERISTICS

MAKE: Wisconsin (gasoline)
 MODEL: ABS
 RATED: 3.6 HP @ 2,800 rpm
 CYLINDERS: 1 BORE: 2-1/2" STROKE: 2-3/4"
 COMPRESSION RATIO: 5.1 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel
 Exhaust: Silchrome
 OPERATING SPEED: 2,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 7/8 qt
 AIR CLEANER: Oil-bath
 STARTING: Battery, -6 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: Fairbanks Morse Y-35A-1, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: MS-28876
 TYPE OF GENERATOR: D-c dual-voltage self-excited

 RATING:
 0.365/0.350 KW 365/350 WATTS
 14.6/1,000 VOLTS 25/0.35 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

 OPERATING SPEED: 2,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: Ball, MAC-204-SFF
 INSULATION: Class A

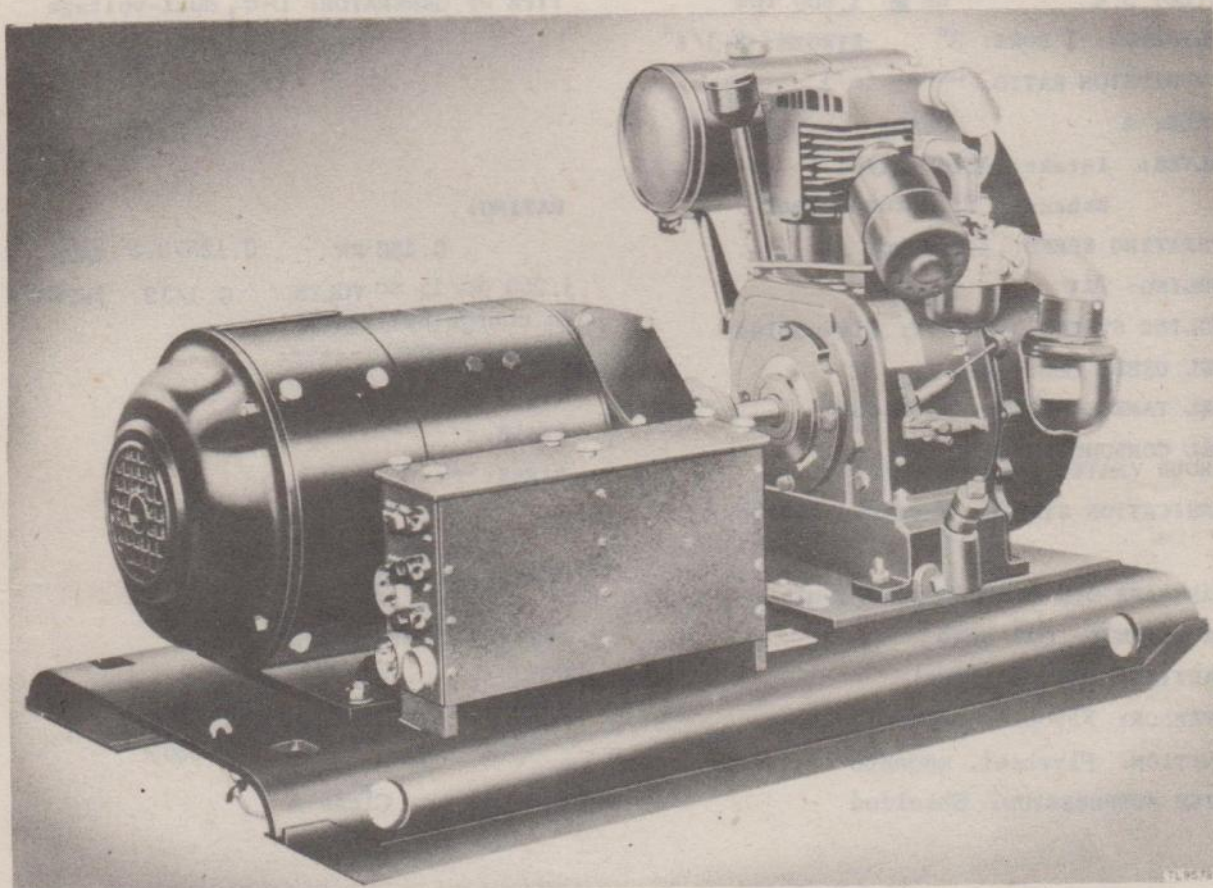
COMPLETE UNIT

LENGTH: 36" WIDTH: 22-1/2" HEIGHT: 17"
 WEIGHT: (NET) 230 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-920G	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4549-G

STATUS: Obsolete

POWER UNIT

PE-AA-50**POWER UNIT PE-AA-50**

Power Unit PE-AA-50 is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator of the dual-voltage type.

The engine is rated 3.4 horsepower at 1,800 revolutions per minute and consumes approximately 0.7 gallon of fuel per hour at rated load.

The generator has two windings; 500 watts at 15 volts, 32 amperes direct current, and 1,250 volts, 0.1 ampere direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set SCR-AA-197, at the higher voltage, and for the charging of storage batteries at the lower voltage.

POWER UNIT PE-AA-50

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: ZL
 RATED: 3.4 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: ----- to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1.25 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.7 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 2-1/2 qt
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL: 5-BY-132A1
 TYPE OF GENERATOR: D-c, dual-voltage

 RATING:
 0.480 KW 0.125/0.5 WATTS
 1,250 dc/15 dc VOLTS 0.1/32 AMPERES
 To charge batteries
 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

 OPERATING SPEED: 1,800

 DRIVE: Direct-connected

 NUMBER & TYPE
 OF BEARINGS: 2-ball-SKF-5205A-&
 "-6502

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 40" WIDTH: 20" HEIGHT: 27-1/8"
 WEIGHT: (NET) 365 lb WEIGHT: (CRATED) 388 lb

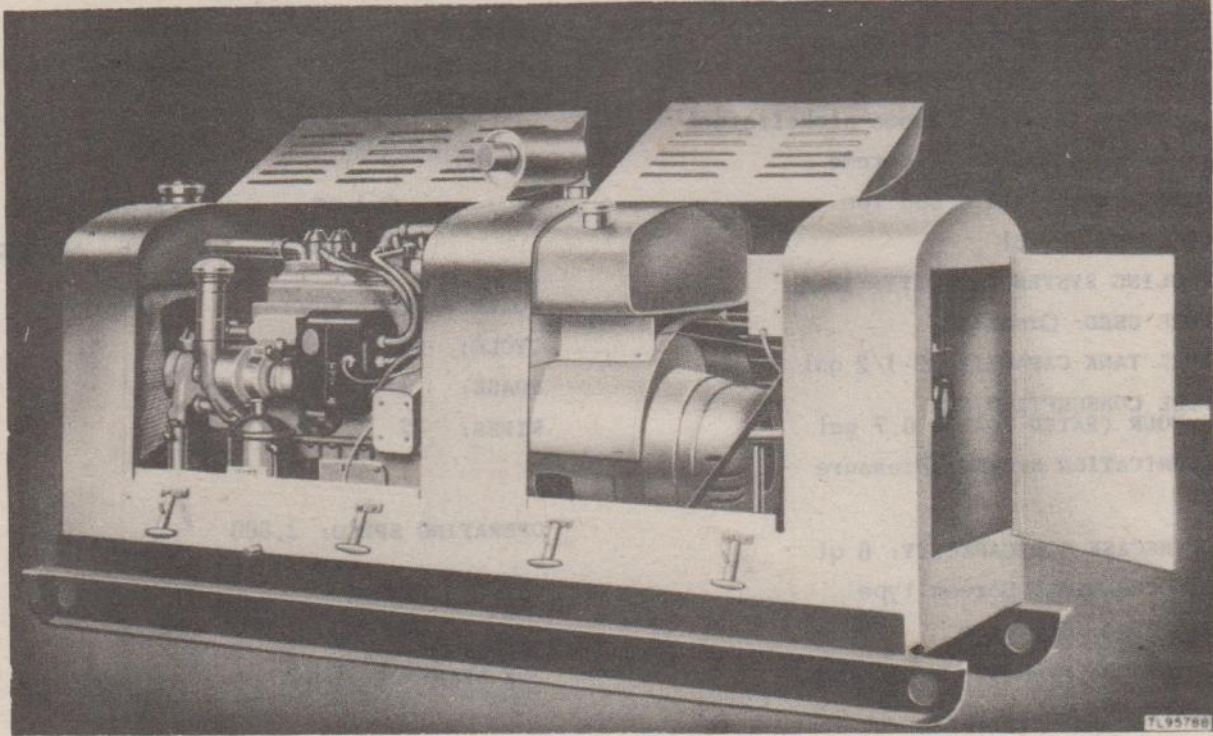
<p>INSTRUCTIONAL LITERATURE Instruction Book Stock No. 3H4550/1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4550</p>

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 6 Feb 45

PE-52



POWER UNIT PE-52

Power Unit PE-52 is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving-field type.

The engine is rated 12.5 horsepower at 1,800 revolutions per minute, and consumes approximately 0.7 gallon of fuel per hour at rated load.

The generator is rated 2.4 kilowatts, 60 cycles, single phase, 115 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of current for the operation of Armored Forces, repair trucks and communication equipment in radio intelligence units.

POWER UNIT PE-52

ENGINE CHARACTERISTICS

MAKE: Hercules Engine Co (gasoline)
 MODEL: ZXA
 RATED: 12.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel, steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 16 qt
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 3-1/2 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.7 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 6 qt
 AIR CLEANER: Screen type
 STARTING: Electric
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Fidelity Electric Co
 MODEL: LAEB
 TYPE OF GENERATOR: A-c, revolving-field self-excited

 RATING:
 2.4 KW 2,400 WATTS
 115 VOLTS 26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: Ball

 INSULATION: Class A

COMPLETE UNIT

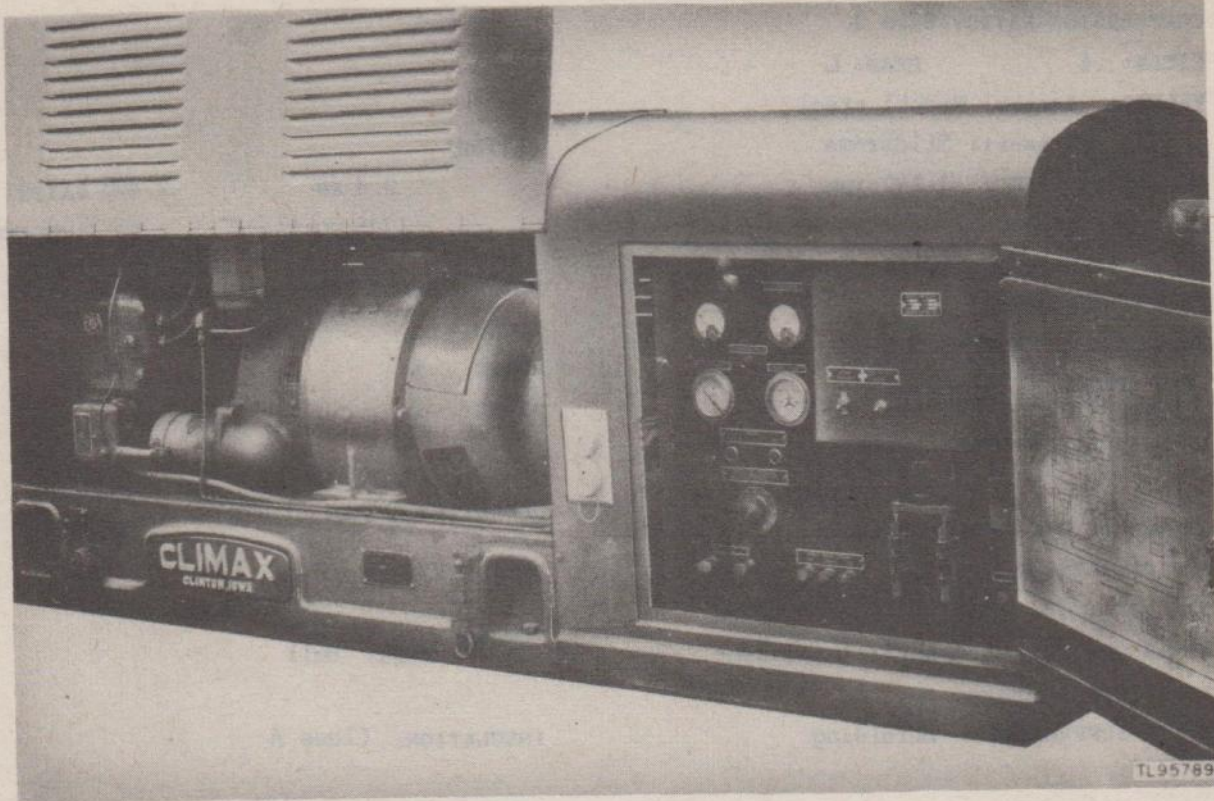
LENGTH: 66" WIDTH: 22" HEIGHT: 40"
 WEIGHT: (NET) 900 lb WEIGHT: (CRATED) 1,100 lb

INSTRUCTIONAL LITERATURE Instruction Book Stock No. 3H4552/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4552

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 6 Feb 45

PE-52-A**POWER UNIT PE-52-A**

Power Unit PE-52-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving-field type.

The engine is rated 13.5 horsepower at 1,800 revolutions per minute and consumes approximately 0.7 gallon of fuel per hour at rated load.

The generator is rated at 2.4 kilowatts, 60 cycles, single phase, 115 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Armored Forces, repair trucks and communication equipment in radio intelligence units.

POWER UNIT PE-52-A

ENGINE CHARACTERISTICS

MAKE: Waukesha Engine Co (gasoline)
 MODEL: ICK
 RATED: 13.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3-1/8"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Nickel steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 8 qt
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 3 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.7 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qt
 AIR CLEANER: Screen
 STARTING: Electric
 GOVERNOR: Waukesha, centrifugal-type
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielding

GENERATOR CHARACTERISTICS

MAKE: Marble Card Co
 MODEL: Frame 7 Gladstone, Mich.
 TYPE OF GENERATOR: A-c, revolving-field

 RATING:
 2.4 KW 2,400 WATTS
 115 VOLTS 26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: Ball

 INSULATION: Class A

COMPLETE UNIT

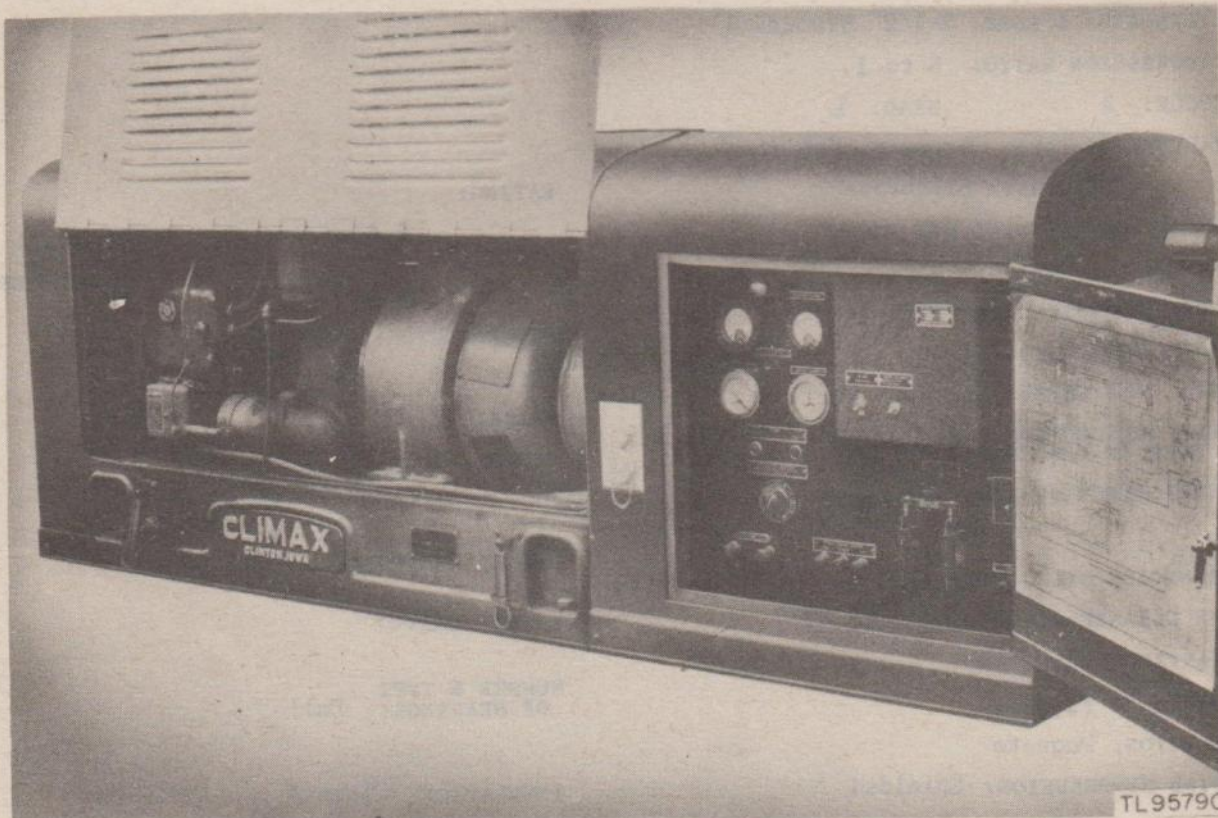
LENGTH: 75" WIDTH: 18-1/4" HEIGHT: 46-5/8"
 WEIGHT: (NET) 1,200 lb WEIGHT: (CRATED) 1,450 lb

INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4552A/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4552A

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 6 Feb 45

PE-52-B**POWER UNIT PE-52-B**

Power Unit PE-52-B is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving-field type.

The engine is rated 12.5 horsepower at 1,800 revolutions per minute, and consumes approximately 0.7 gallon of fuel per hour at rated load.

The generator is rated at 2.4 kilowatts, 60 cycles, single phase, 115 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of communication equipment in radio intelligence units.

POWER UNIT PE-52-B

ENGINE CHARACTERISTICS

MAKE: Hercules Engine Co (gasoline)
 MODEL: ZXA
 RATED: 12.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 16 qt
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 3-1/2 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.7 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4
 AIR CLEANER: Screen
 STARTING: Electric
 GOVERNOR: Flyball
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Fidelity Electric Co
 MODEL: LAEB-Lancaster, Pa
 TYPE OF GENERATOR: A-c, revolving-field

 RATING:
 2.4 KW 2,400 WATTS
 115 VOLTS 26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE
 OF BEARINGS: Ball

 INSULATION: Class A

COMPLETE UNIT

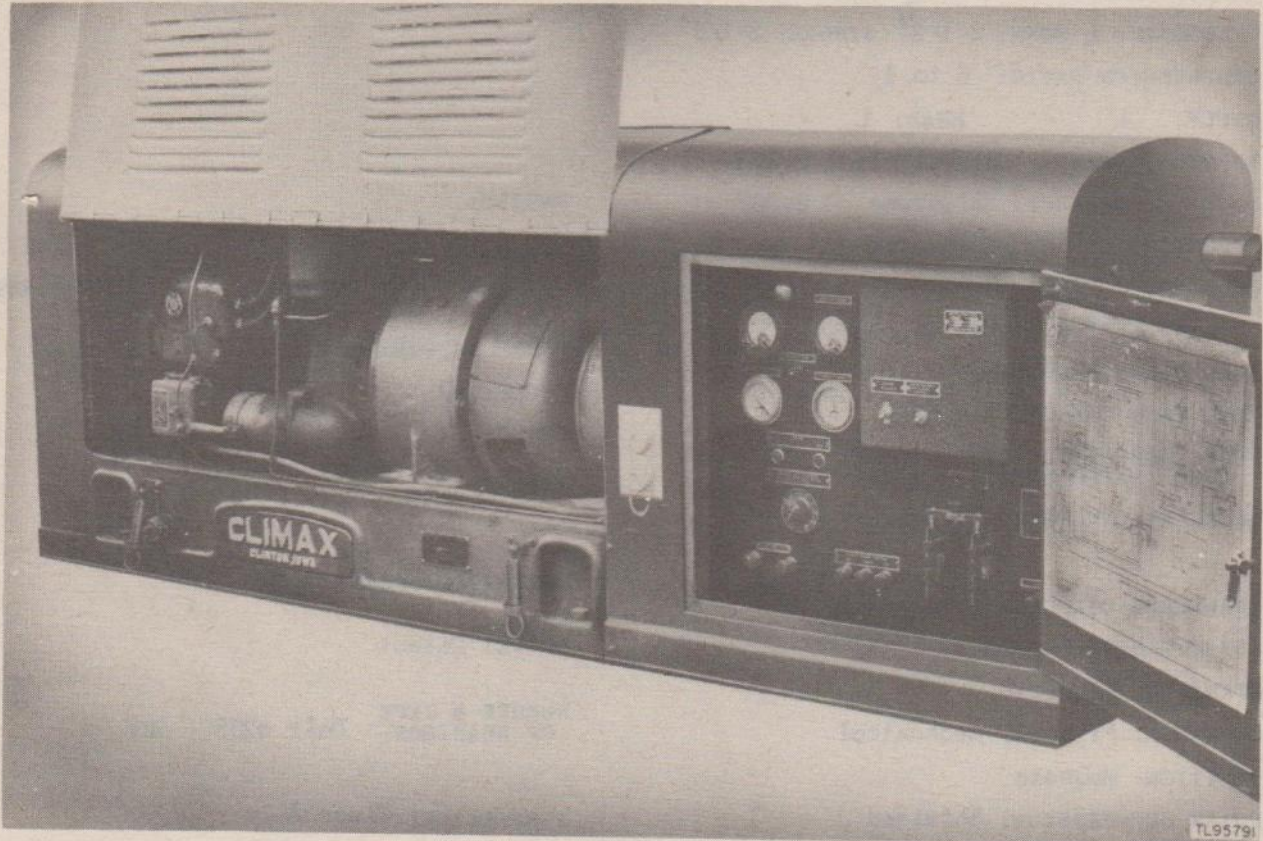
LENGTH: 66" WIDTH: 22" HEIGHT: 40"
 WEIGHT: (NET) 900 lb WEIGHT: (CRATED) 1,200 lb

INSTRUCTIONAL LITERATURE	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4552B

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 6 Feb 45

PE-52-C**POWER UNIT PE-52-C**

Power Unit PE-52-C is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving-field type.

The engine is rated 13.5 horsepower at 1,800 revolutions per minute, and consumes approximately 0.8 gallon of fuel per hour at rated load.

The generator is rated at 2.4 kilowatts, 60 cycles, single phase, 115 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Armored Forces, repair trucks and communication equipment in radio intelligence units.

POWER UNIT PE-52-C

ENGINE CHARACTERISTICS

MAKE: Waukesha Engine Co (gasoline)
 MODEL: ICK
 RATED: 13.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3-1/8"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Nickel steel 0.005
 Exhaust: Silchrome 0.007
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 8 qt
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.8 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qt
 AIR CLEANER: Screen
 STARTING: Electric
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Marble Card Co
 MODEL: Frame 6
 TYPE OF GENERATOR: A-c, revolving-field

 RATING:
 2.4 KW 2,400 WATTS
 115 VOLTS 26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: Ball #205 - 207

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 80" WIDTH: 20-1/2" HEIGHT: 30"
 WEIGHT: (NET) 1,200 lb WEIGHT: (CRATED) 1,450 lb

<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4552C/1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4552C</p>

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 6 Feb 45

PE-52-D-E-F

POWER UNIT PE-52-D, -E, -F

Power Unit PE-52-D, -E, -F is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator, self-excited.

The generator is rated at 2.4 kilowatts, 60 cycles, single phase, 115 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Armored Forces repair trucks and communication equipment in radio intelligence units.

POWER UNIT PE-52 -D,-E,-F

ENGINE CHARACTERISTICS

MAKE: Waukesha Engine Co (gasoline)
 MODEL: ICK
 RATED: 13.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3-1/8"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Nickel steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 8 qt
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.8 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qt
 AIR CLEANER: Oil-bath
 STARTING: Electric, 6 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Marble Card Co
 MODEL: Frame 6
 TYPE OF GENERATOR: A-c, self-excited

 RATING:
 2.4 KW 2,400 WATTS
 115 VOLTS 26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 2-ball #205 & 207

 INSULATION: Class A

COMPLETE UNIT

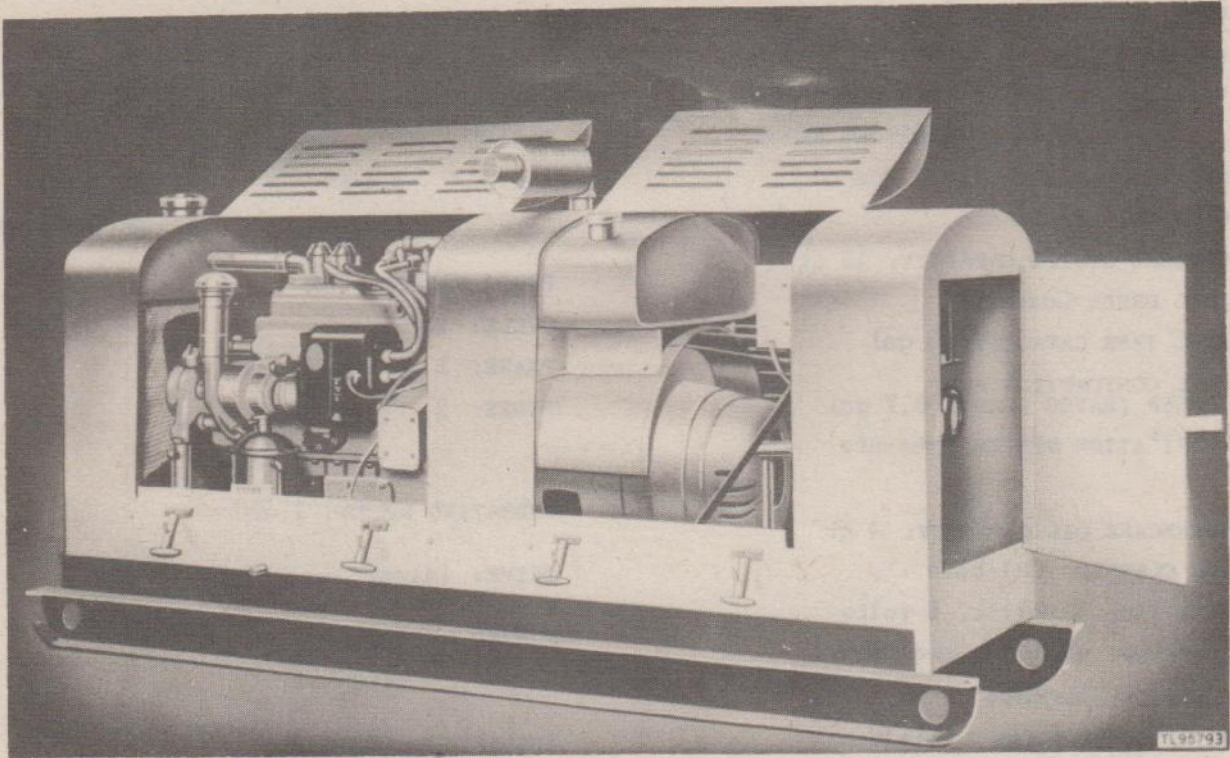
LENGTH: 80" WIDTH: 20-1/2" HEIGHT: 30"
 WEIGHT: (NET) 1,200 lb WEIGHT: (CRATED) 1,460 lb

<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4552D/1 for PE-52-D Instruction Book, stock No. 3H4552E/1 for PE-52-E</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4552-D, E, F for PE-52-D, E, F</p>

STATUS: Limited standard

POWER UNIT

DATE APPROVED: 17 Oct 42

PE-53

POWER UNIT PE-53

Power Unit PE-53 is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to a self-exciting, a-c generator.

The engine is rated 11.2 horsepower at 1,500 revolutions per minute, and consumes approximately 0.7 gallon of fuel per hour at rated load.

The generator is rated at 2.4 kilowatts, 25 cycles, single phase, 115 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps radio sets in the Panama Canal Zone only.

POWER UNIT PE-53

ENGINE CHARACTERISTICS

MAKE: Hercules Engine Co (gasoline)
 MODEL: ZXA
 RATED: 11.2 HP @ 1,500 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,500 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 16 qt
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 3 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.7 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qt
 AIR CLEANER: Oil-bath
 STARTING: Electric, 6 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Fidelity Electric Co
 MODEL: LAMB Drawing 3139-16-A-17
 TYPE OF GENERATOR: A-c self exciting

 RATING:
 2.4 KW 2,400 WATTS
 115 VOLTS 26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 25
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,500
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2-ball

 INSULATION: Class A

COMPLETE UNIT

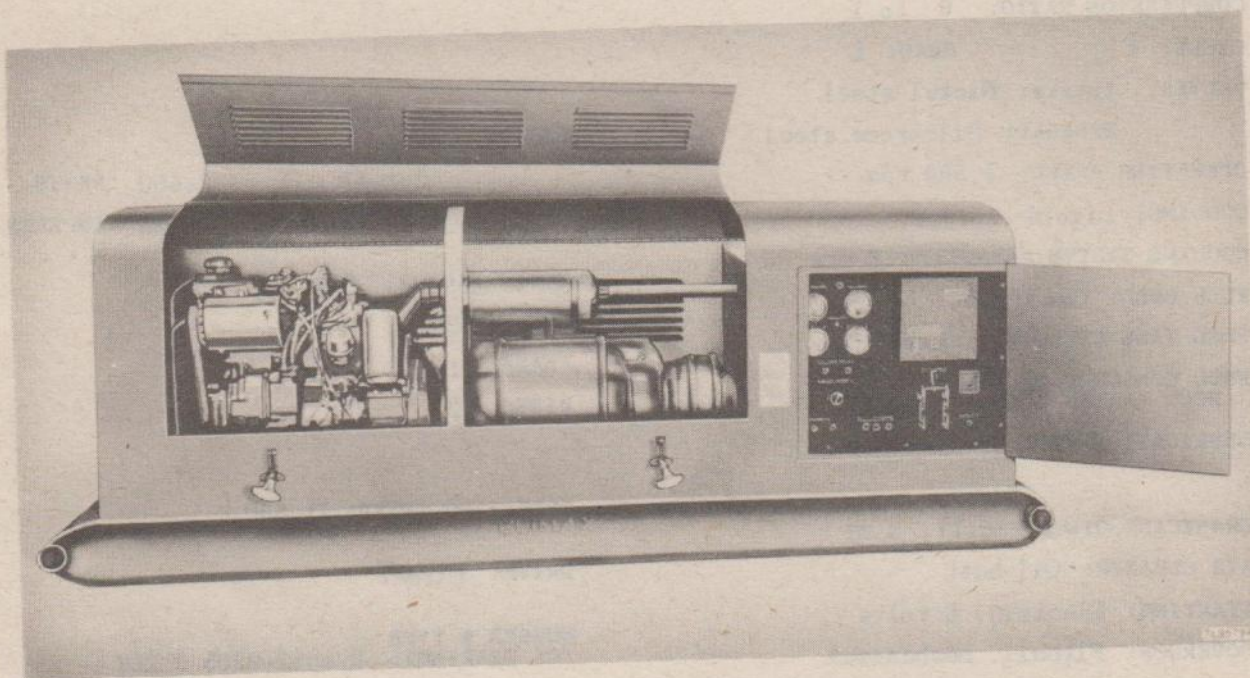
LENGTH: 66" WIDTH: 22" HEIGHT: 40"
 WEIGHT: (NET) 900 lb WEIGHT: (CRATED) 1,200 lb

INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4552/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4553

STATUS: Limited standard

POWER UNIT

DATE APPROVED: 17 Oct 42

PE-53-A

POWER UNIT PE-53-A

Power Unit PE-53-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator.

The engine is rated 11.5 horsepower at 1,500 revolutions per minute, and consumes approximately 0.8 gallon of fuel per hour at rated load.

The generator is rated at 2.4 kilowatts, 25 cycles, single phase, 115 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps radio communication equipment in the Panama Canal Zone.

POWER UNIT PE-53-A

ENGINE CHARACTERISTICS

MAKE: Waukesha (gasoline)
 MODEL: ICK
 RATED: 11.5 HP @ 1,500 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3-1/8"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Nickel steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,500 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 8 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.8 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qt
 AIR CLEANER: Oil-bath
 STARTING: Electric, 6 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: FM-JE-4B26, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Marble Card Co
 MODEL: Frame 6
 TYPE OF GENERATOR: A-c

 RATING:
 2.4 KW 2,400 WATTS
 115 VOLTS 26 AMPERES
 POWER FACTOR: 80%
 CYCLE: 25
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,500

 DRIVE: Direct

 NUMBER & TYPE
 OF BEARINGS: 2-ball-#205 & 207

 INSULATION: Class A

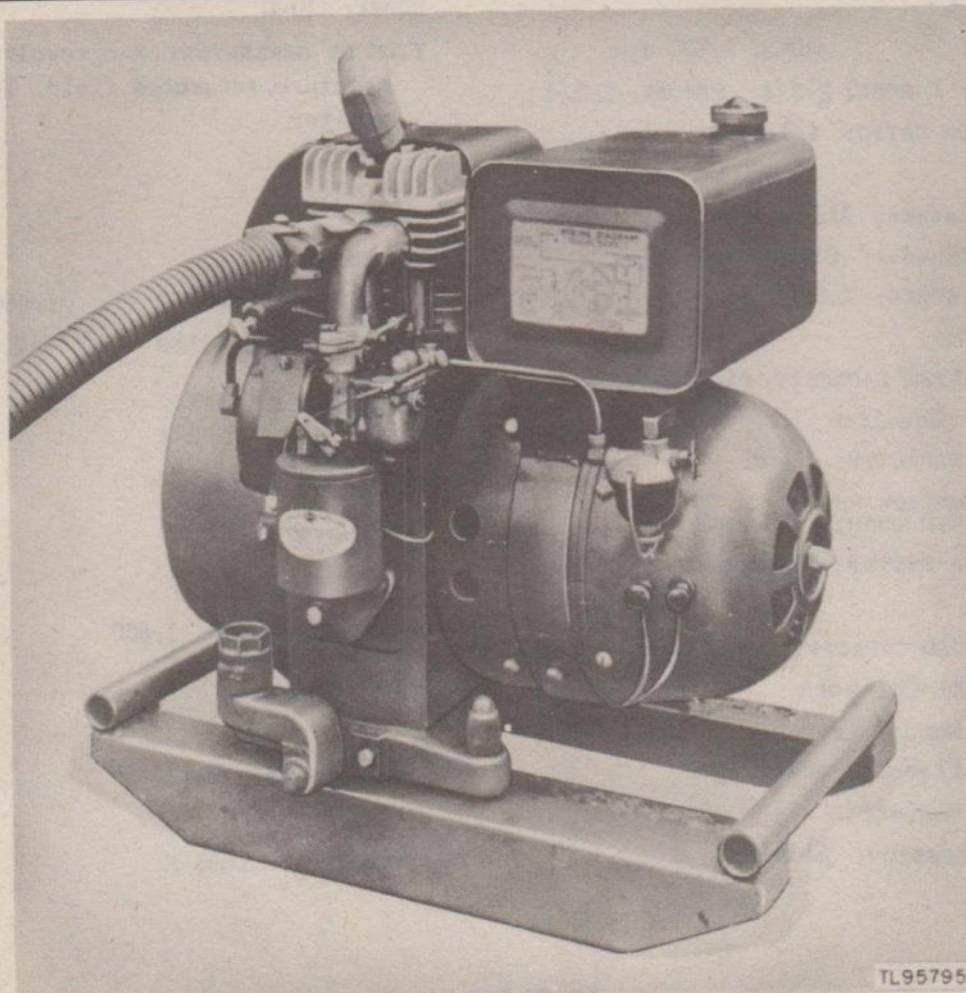
COMPLETE UNIT

LENGTH: 80" WIDTH: 20-1/2" HEIGHT: 30"
 WEIGHT: (NET) 1,200 lb WEIGHT: (CRATED) 1,450 lb

INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4553A/1P	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4553A

STATUS: Limited standard

POWER UNIT

PE-56-A**POWER UNIT PE-56-A**

Power Unit PE-56-A is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine directly connected to an a-c generator of the revolving-armature, saturated-field type, with integral self-exciter.

The engine is rated 2.5 horsepower at 1,800 revolutions per minute, and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator is rated at 1.25 kilowatts, 60 cycles, single phase, 110 volts, 13.6 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set SCR-197-A.

POWER UNIT PE-56-A

ENGINE CHARACTERISTICS

MAKE: D. W. Onans & Sons (gasoline)
 MODEL: 10-L
 RATED: 2.5 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-3/4 STROKE: 2-3/4
 COMPRESSION RATIO: 4.8 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 2 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.5 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 2-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D. W. Onans & Sons
 MODEL: 10-L
 TYPE OF GENERATOR: A-c, revolving--
 armature, saturated field. Integral-
 exciter

 RATING:
 1.25 KW 1,250 WATTS
 110 VOLTS 13.6 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE
 OF BEARINGS: Ball

 INSULATION: Class A

COMPLETE UNIT

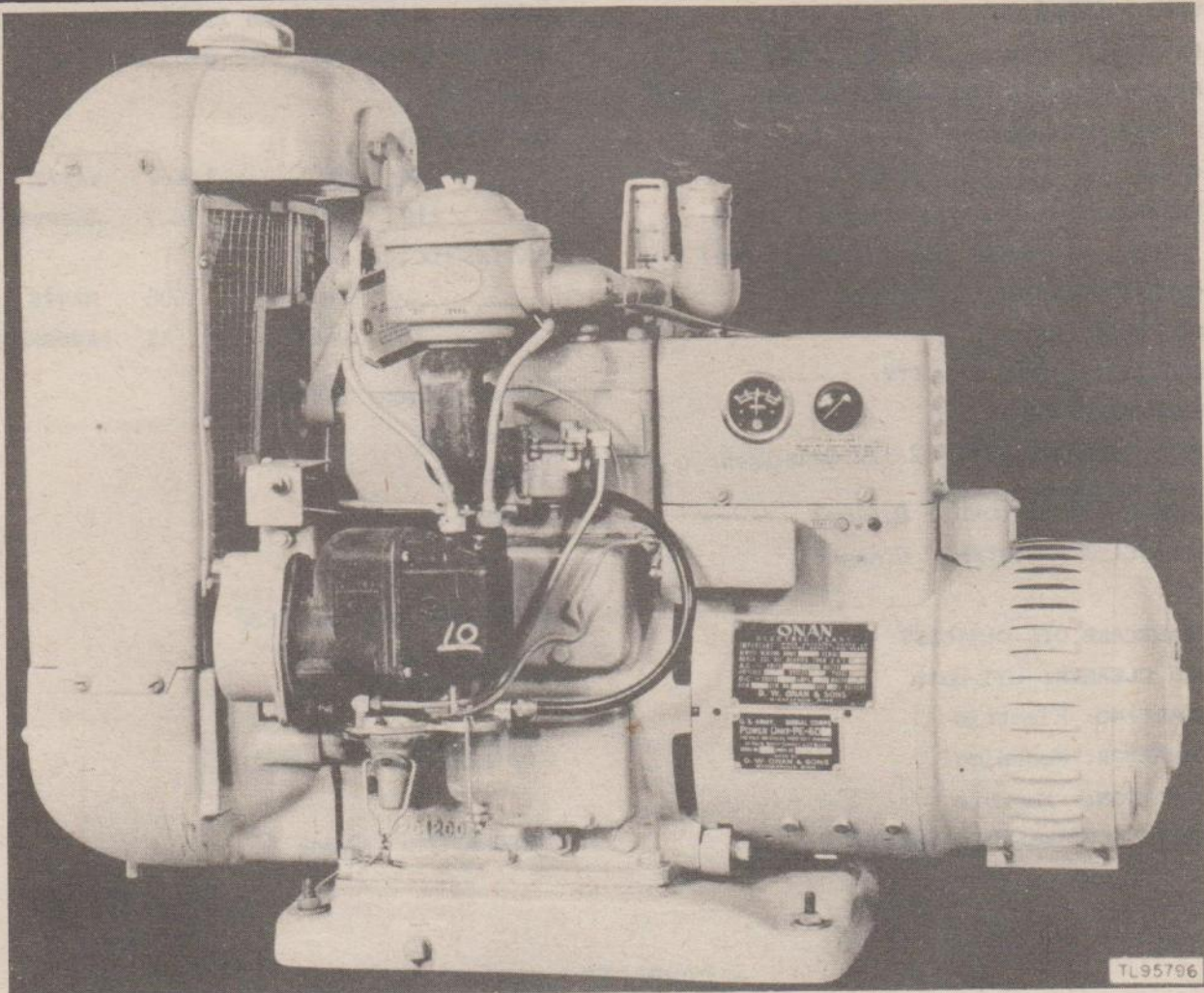
LENGTH: 21-1/2" WIDTH: 21-1/2" HEIGHT: 16"
 WEIGHT: (NET) 215 lb WEIGHT: (CRATED) 275 lb

<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4556A/1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4556-A</p>

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 6 Feb 45

PE-60-A**POWER UNIT PE-60-A**

Power Unit PE-60-A is an electric generating set consisting of a 2-cylinder, 4-cycle, L-head, air-cooled electric-starting gasoline engine, directly connected to an a-c, d-c generator, self-excited.

The engine is rated 5 horsepower at 1,800 revolutions per minute, and consumes approximately 0.4 gallon of fuel per hour at rated load.

The generator has two windings; 1.4 kilowatts at 110 volts, 12.7 amperes, 60 cycles, single phase and 600 watts at 14 volts, 42 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets AN/CRN-2 and AN/MRN-2; and Instrument Landing Equipment SCR-241 at the higher voltage; and for the charging of storage batteries at lower voltage.

POWER UNIT PE-60-A

ENGINE CHARACTERISTICS

MAKE: Stever Mfg & Engine Co (gasoline)
MODEL: DVA-2
RATED: 5 HP @ 1,800 rpm
CYLINDERS: 2 BORE: 2-1/2" STROKE: 2-3/4"
COMPRESSION RATIO: ----- to 1
CYCLE: 4 HEAD: L
VALVES: Intake: Alloy nickel steel
 Exhaust: Alloy nickel steel
OPERATING SPEED: 1,800 rpm
COOLING: Air
COOLING SYSTEM CAPACITY: -----
FUEL USED: Gasoline
FUEL TANK CAPACITY: 2-1/2 gals (remote tank)
FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.4 gal
LUBRICATION SYSTEM: Pressure

CRANKCASE OIL CAPACITY: 1-1/2 qts
AIR CLEANER: Oil-bath
STARTING: Electric
GOVERNOR: Mechanical
IGNITION: Magneto
NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D. W. Onan & Sons
MODEL: W-2S-13 Frame 12605
TYPE OF GENERATOR: A-C d-c, self-excited
RATING (AC):
 1.4 KW 1,400 WATTS
 110 VOLTS 12.7 AMPERES
RATING (DC):
 .6 KW 600 WATTS
 14 VOLTS 42 AMPERES

POWER FACTOR: 100%
CYCLE: 60
PHASE: 1
WIRES: 2

OPERATING SPEED: 1,800

DRIVE: Direct

NUMBER & TYPE OF BEARINGS: 1 ball

INSULATION: Class A

COMPLETE UNIT

LENGTH: 28"

WIDTH: 18"

HEIGHT: 23"

WEIGHT: (NET) 380 lb

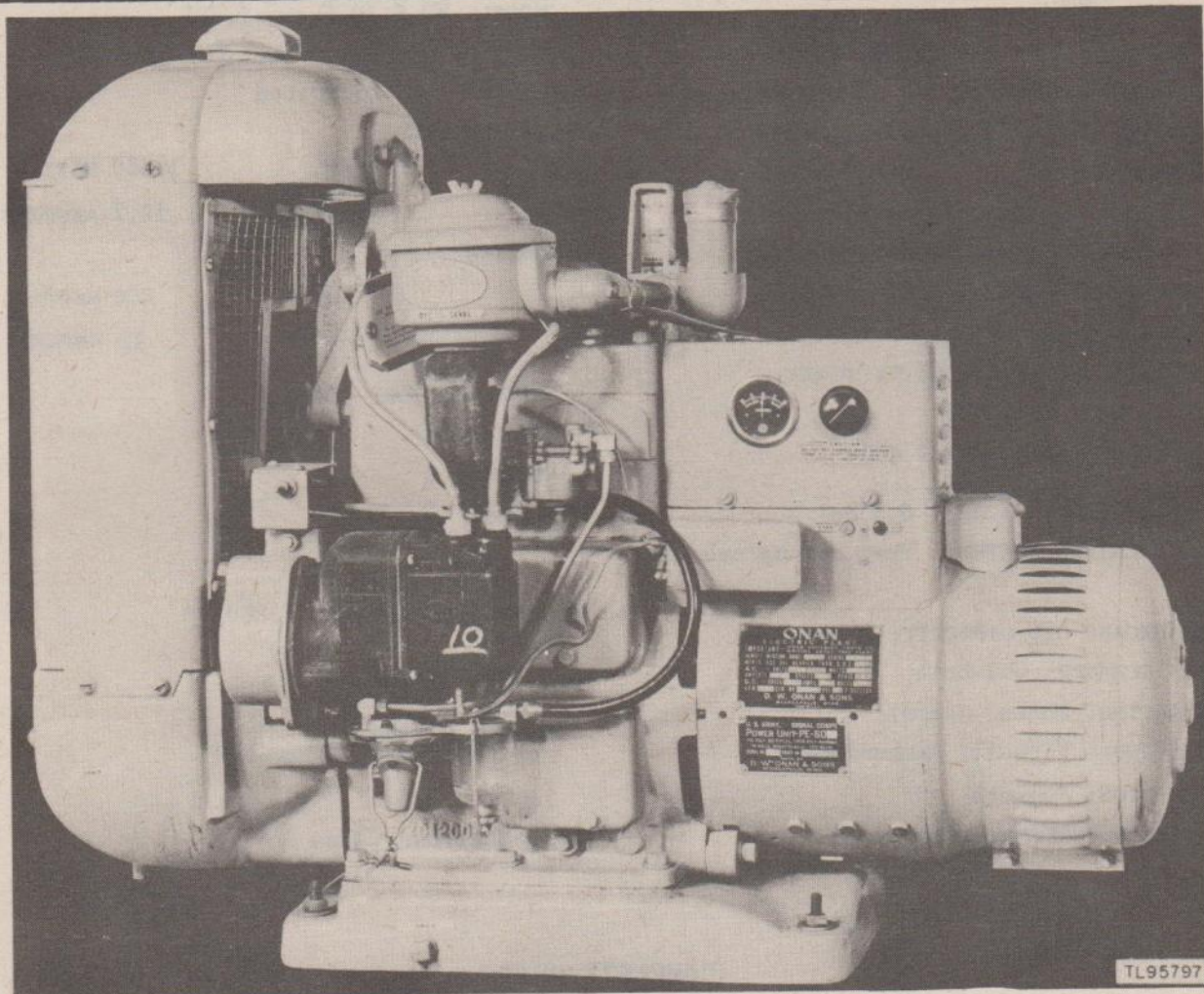
WEIGHT: (CRATED) 435 lb

INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4560A/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4560A

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 6 Feb 45

PE-60-B**POWER UNIT PE-60-B**

Power Unit PE-60-B is an electric generating set consisting of a 2-cylinder, 4-cycle, L-head, liquid-cooled, manual-starting (rope), gasoline engine, directly connected to an a-c-d-c generator of the revolving-field, self-exciting type.

The engine is rated at 5.1 horsepower at 1,800 revolutions per minute, and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator has two windings; 1.4 kilowatts at 110 volts, 12.7 amperes, 60 cycles, single phase, operating at 100 percent power factor and 600 watts at 14 volts, 42 amperes direct current.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Sets AN/CRN-5 and AN/MRN-2.

POWER UNIT PE-60-B

ENGINE CHARACTERISTICS

MAKE: D.W. Onan & Sons (gasoline)
 MODEL: W2S
 RATED: 5.1 HP @ 1,800 rpm
 CYLINDERS: 2 BORE: 3" STROKE: 2-3/4"
 COMPRESSION RATIO: -----to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 9 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.5 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 6 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D.W. Onan & Sons
 MODEL: W2-S-13 Frame 12605
 TYPE OF GENERATOR: A-c & d-c, revolving-field, self-excited
 RATING (AC):
 1.4 KW 1,400 WATTS
 110 VOLTS 12.7 AMPERES
 RATING (DC):
 0.6 KW 600 WATTS
 14 VOLTS 42 AMPERES
 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1, No. 1261

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 35" WIDTH: 16" HEIGHT: 30-1/2"
 WEIGHT: (NET) 435 lb WEIGHT: (CRATED) 598 lb

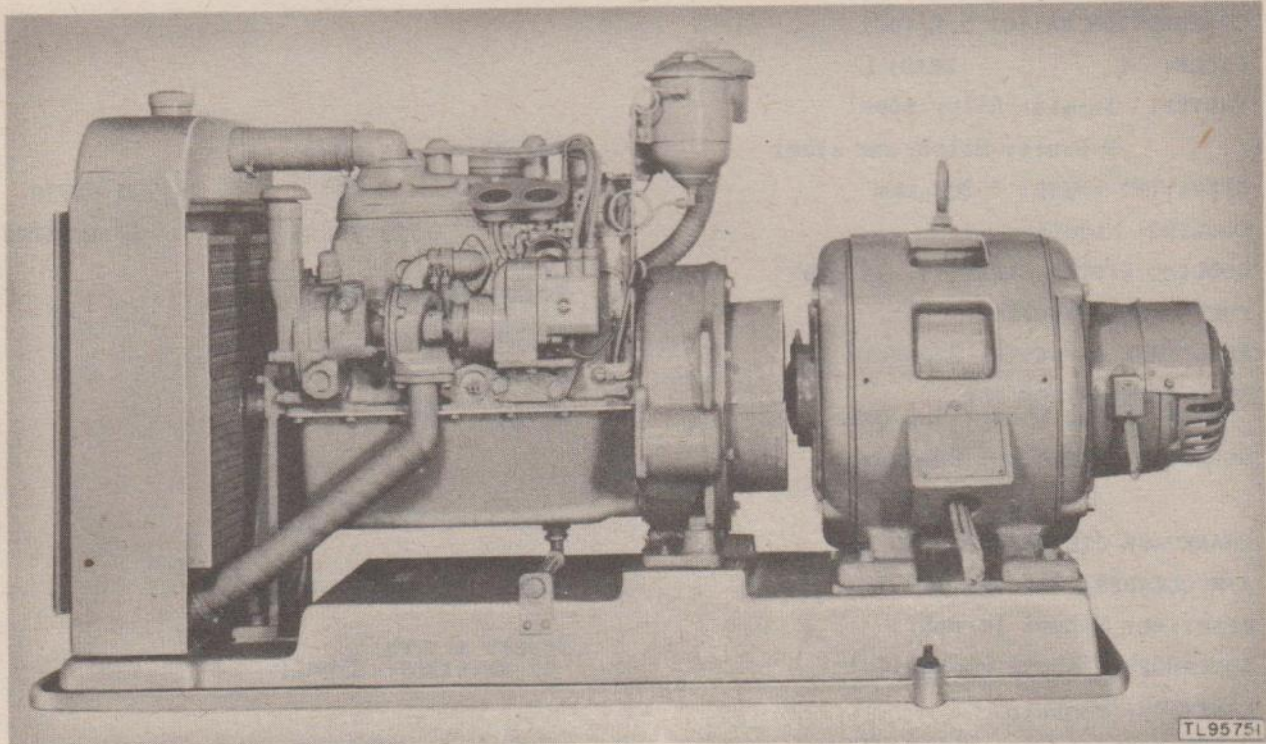
<p>INSTRUCTIONAL LITERATURE Instruction book, stock No. 3H4560B/B1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4560B</p>

STATUS: SEE BELOW *

POWER UNIT

PE-63-H

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-63-H

Power Unit PE-63-H is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, manual starting (crank) gasoline engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 16 horsepower at 1,200 revolutions per minute, and consumes approximately 1.1 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 120 volts, 52 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Limited supply available for issue. No more to be procured. (Power Unit PE-63-H has been superseded by Power Unit PU-58/G.)

POWER UNIT PE-63-H

ENGINE CHARACTERISTICS

MAKE: Hercules Engine Co (gasoline)
 MODEL: IXA-5
 RATED: 16 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3" STROKE: 4"
 COMPRESSION RATIO: 5.2 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 12 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.1 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 6 qts
 AIR CLEANER: Airmaze ID-OB
 STARTING: Manual (crank)
 GOVERNOR: Flyball mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Fidelity Electric Co
 MODEL: LAEB 802
 TYPE OF GENERATOR: A-c, revolving field

 RATING:
 5 KW 5,000 WATTS
 120 VOLTS 52 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,200
 DRIVE: Direct-connected
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

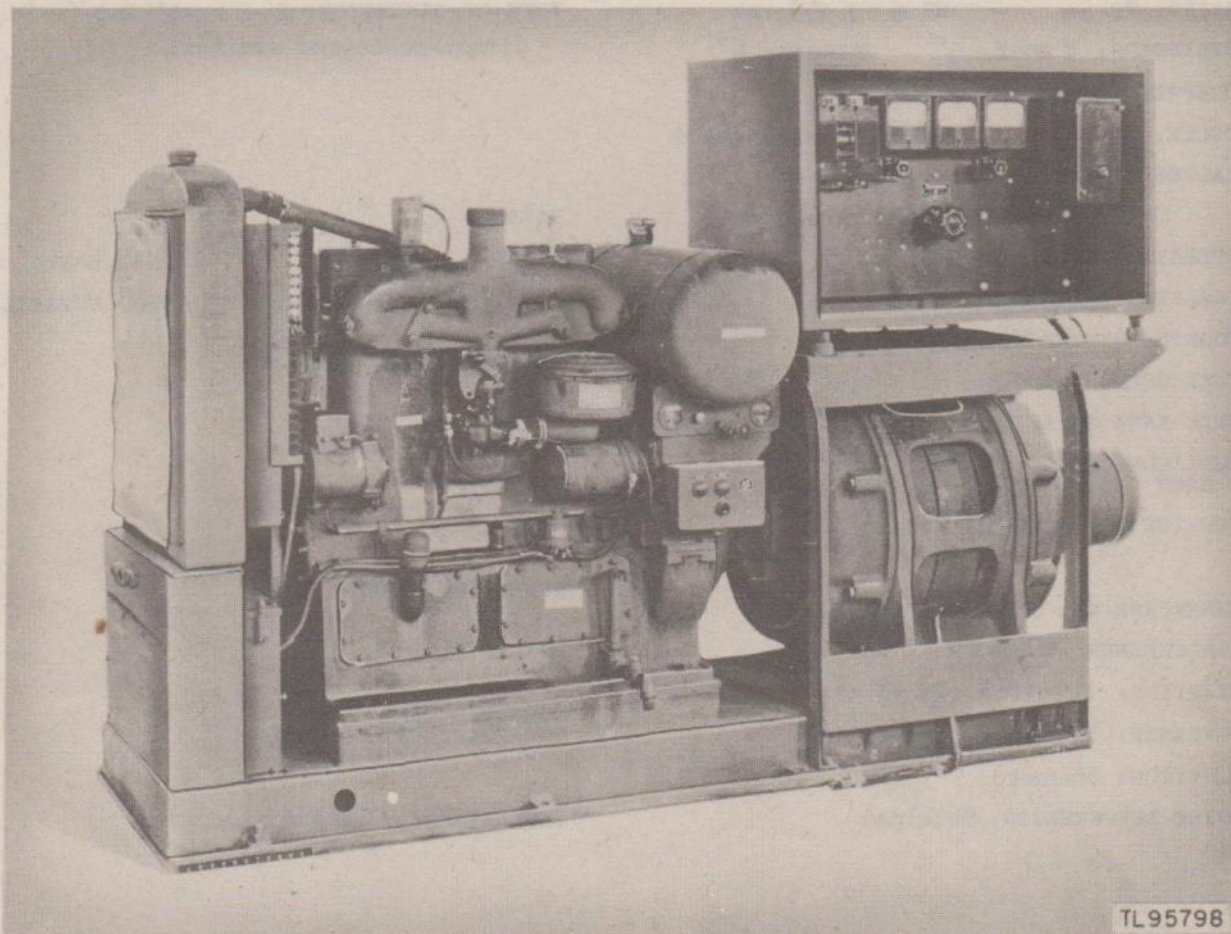
COMPLETE UNIT

LENGTH: 63-1/2" WIDTH: 22" HEIGHT: 34-3/8"
 WEIGHT: (NET) 1,175 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE Instruction book, Stock No. 3H4563H/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4563H

STATUS: Standard

POWER UNIT

PE-74-A-B

POWER UNIT PE-74-A, -B

Power Unit PE-74-A, -B is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator with direct-connected exciter.

The engine is rated 70 horsepower at 1,200 revolutions per minute, and consumes approximately 4 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3 phase, 120/208 volts, 150/87 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-270, SCR-271, and SCR-6I5.

POWER UNIT PE-74-A, -B

ENGINE CHARACTERISTICS

MAKE: Le-Roy Engine Co (gasoline)
 MODEL: D471
 RATED: 70 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 5" STROKE: 6"
 COMPRESSION RATIO: 5.8
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy nickel steel
 Exhaust: Alloy nickel steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 34 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 15 gal or remote supply
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 4 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 15 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric, 12 volts
 GOVERNOR: Woodward, hydraulic
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Westinghouse Electric & Mfg Co
 MODEL: G
 TYPE OF GENERATOR: A-c, revolving-field, direct-connected exciter.

 RATING:
 25 KW 25,000 WATTS
 120/208 VOLTS 150/87 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2-ball

 INSULATION: Class A

COMPLETE UNIT

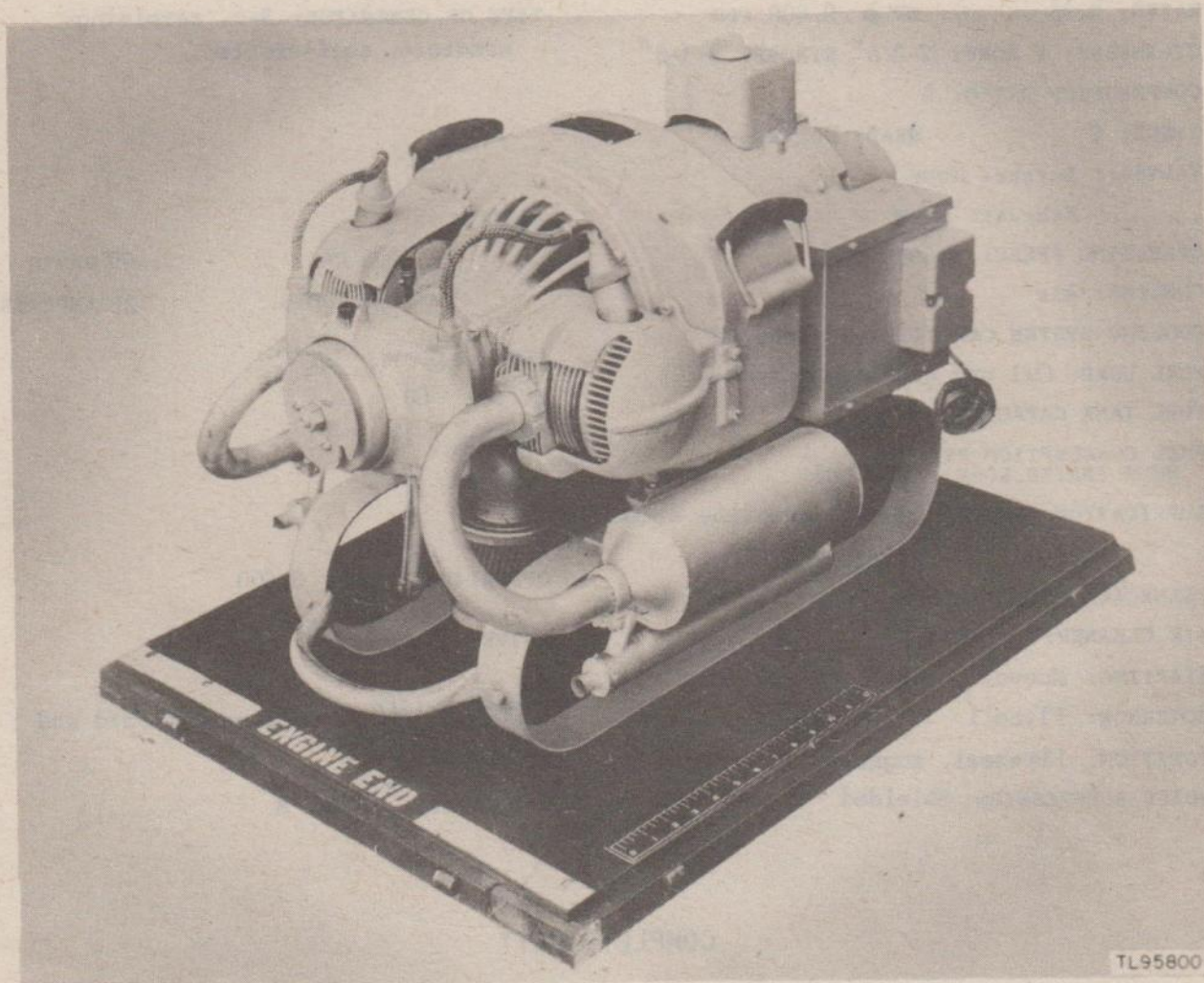
LENGTH: 115-3/4" WIDTH: 32" HEIGHT: 63-1/4"
 WEIGHT: (NET) WEIGHT: (CRATED) 4,460 lb

INSTRUCTIONAL LITERATURE TM 11-909	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4574()

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 22 May 44

PE-75-A,-B

POWER UNIT PE-75-A, -B

Power Unit PE-75-A, -B is an electric generating set consisting of a 2-cylinder, 2-cycle, ported-head, air-cooled, manual-starting (rope) gasoline engine, directly connected to an a-c generator of the revolving armature, self-exciting type.

The engine is rated 3.35 horsepower at 3,600 revolutions per minute, and consumes approximately 0.6 gallon of fuel per hour at rated load.

The generator is rated at 2.5 kilowatts, 60 cycles, single phase, 120 volts, 22 amperes at 100 percent power factor.

Power Unit PE-75-A, -B was used with Signal Corps Radio Sets SCR-188-A and SCR-197; and Telephone Central Office Set TC-1. As indicated above Power Unit PE-75-A, -B is now obsolete.

POWER UNIT PE-75-A, -B

ENGINE CHARACTERISTICS

MAKE: Homelite Corp (gasoline)
 MODEL: H T R
 RATED: 3.35 HP @ 3,600 rpm
 CYLINDERS: 2 BORE: 2-3/8" STROKE: 2-1/8"
 COMPRESSION RATIO: 6
 CYCLE: 2 HEAD: Ported
 VALVES: Intake: None
 Exhaust: None
 OPERATING SPEED: 3,600 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Oil and gasoline mixed
 FUEL TANK CAPACITY: 2 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.6 gal
 LUBRICATION SYSTEM: Oil and gasoline mixed

 CRANKCASE OIL CAPACITY: None
 AIR CLEANER: Air-maze
 STARTING: Manual (rope)
 GOVERNOR: Flyball
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Homelite Corp
 MODEL: H T R
 TYPE OF GENERATOR: A-c, revolving-armature, self-excited

 RATING:
 2.5 KW 2,500 WATTS
 120 VOLTS 22 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 3,600

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 1-ball on outboard end of generator
 INSULATION: Class A

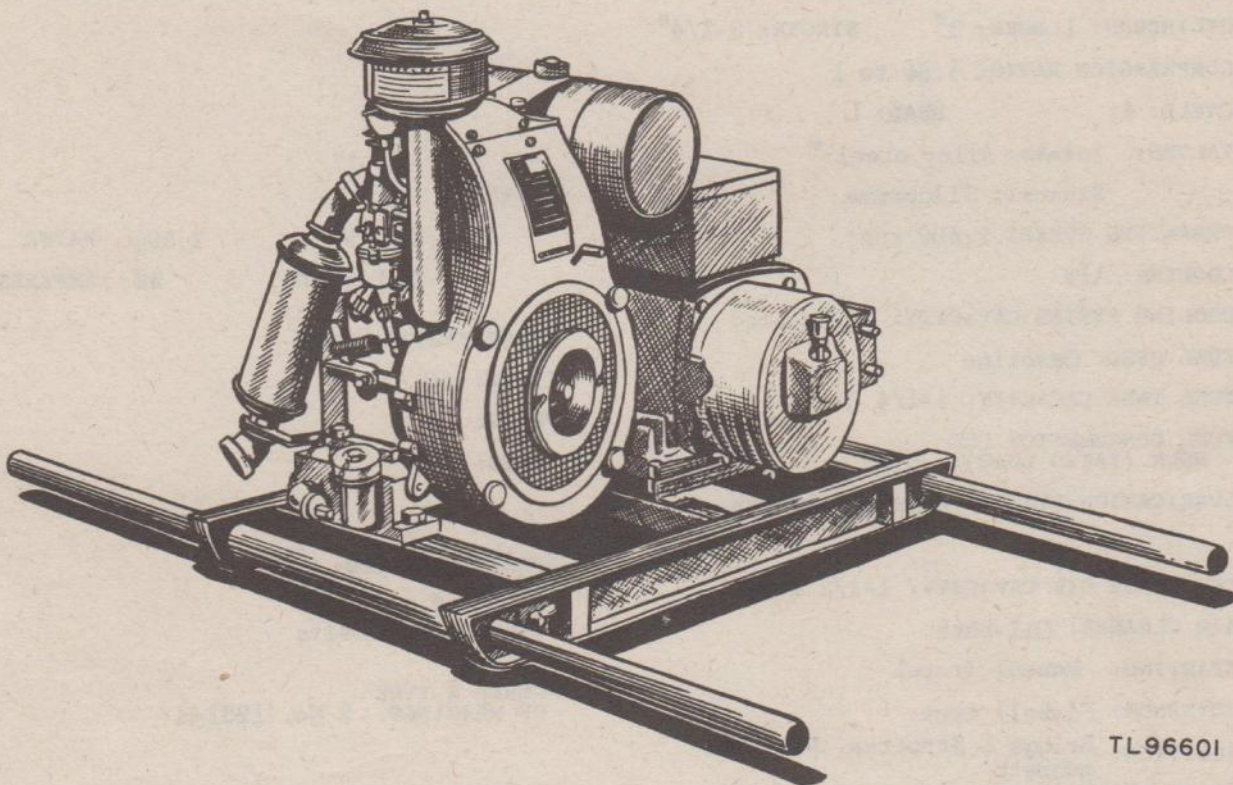
COMPLETE UNIT

LENGTH: 25-1/2" WIDTH: 24-1/2" HEIGHT: 32"
 WEIGHT: (NET) WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4575A, -B

STATUS: Standard

POWER UNIT

PE-75-C;-D;-J;-K;-P;-S;-T;-U;-AA;-AC;-AD

TL96601

POWER UNIT PE-75-C, -D, -J, -K, -P, -S, -T, -U, -AA, -AC, -AD

Power Unit PE-75-C, -D, -J, -K, -P, -S, -T, -U, -AA, -AC, -AD is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine with an a-c, self-excited generator, belt-driven.

The engine is rated 6.5 horsepower at 2,400 revolutions per minute and consumes approximately 0.65 gallon of fuel per hour at rated load.

The generator is rated at 2.5 kilowatts, 60 cycles, single-phase 120 volts, 22 amperes at 100 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Sets SCR-188; SCR-197; SCR-624; SCR-636; AN/TRC-1; Radio Terminal Set AN/TRC-3; Radio Relay Sets AN/TRC-4 and AN/TRC-9; Spotting Set AN/TVQ-1; Telephone Central Office Sets TC-1; TC-2; TC-10 and TC-20; Auxiliary Telephone Central Equipment AN/GTA-1 and TC-5; Telegraph Central Office Set TC-3; Telephone Terminal Set TC-21; Public Address Set AN/UIQ-1 and Mobile Meteorological Station SCM-1.

Note: Some of the above models have a flexible exhaust pipe .

POWER UNIT PE-75-C, -D, -J, -K, -P, -S, -T, -U, -AA, -AC, -AD

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: ZZ
 RATED: 6.5 HP @ 2,400 rpm
 CYLINDERS: 1 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.84 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel *
 Exhaust: Silchrome
 OPERATING SPEED: 2,400 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1-1/4 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.65
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball type
 IGNITION: Briggs & Stratton, Flywheel magneto
 NOISE SUPPRESSION: Shielded 550 kc to 40 mc

GENERATOR CHARACTERISTICS

MAKE: Leland Electric
 MODEL: 9900E3625
 TYPE OF GENERATOR: A-c, self-excited

 RATING:
 2.5 KW 2,500 WATTS
 120 VOLTS 22 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: 2 vee belts

 NUMBER & TYPE OF BEARINGS: 2 No. 1232-H

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 36" WIDTH: 19-1/2" HEIGHT: 26-1/2"
 WEIGHT: (NET) 290 lb WEIGHT: (CRATED) 440 lb

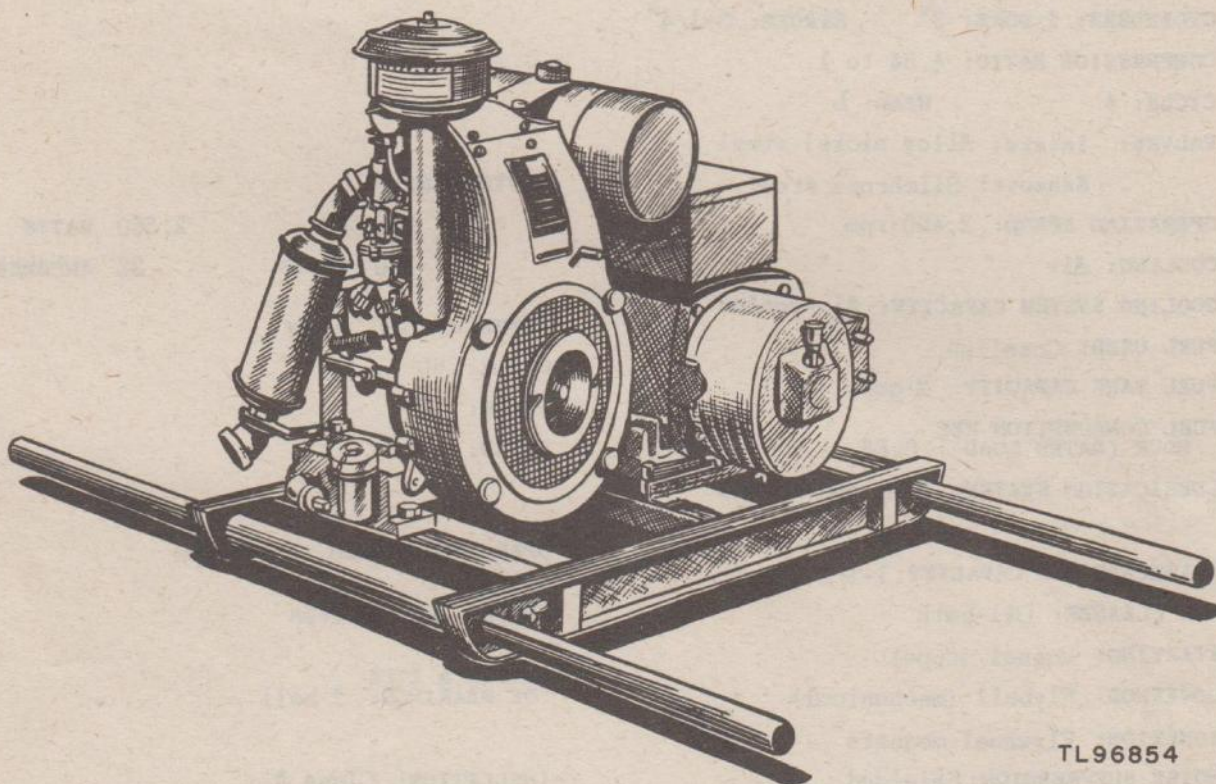
*NOTE: Power Unit PE-75-AD has Stellite exhaust valve and valve seat, and an Austenetic intake valve.

INSTRUCTIONAL LITERATURE TM 11-900	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4575C-D-J-K-S-T-U-AA-AC-AD

STATUS: Standard

POWER UNIT

PE-75-W



TL96854

POWER UNIT PE-75-W

(Above Illustration Differs Somewhat From The Actual Appearance of Generator).

Power Unit PE-75-W is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, with an a-c, self-excited generator, belt-driven.

The engine is rated 6.5 horsepower, at 2,400 revolutions per minute and consumes approximately 0.65 gallon of fuel per hour at rated load.

The generator is rated at 2.5 kilowatts, 60 cycles, single-phase, 120 volts, 22 amperes at 100 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Sets SCR-188; SCR-197; SCR-624; SCR-636; AN/TRC-1; Radio Terminal Set AN/TRC-3; Radio Relay Sets AN/TRC-4 and AN/TRC-9; Spotting Set AN/TVQ-1; Telephone Central Office Sets TC-1; TC-2; TC-10; and TC-20; Auxiliary Telephone Central Equipment AN/GTA-1 and TC-5; Telegraph Central Office Set TC-3; Telephone Terminal Set TC-21; Public Address Set AN/UIQ-1 and Mobile Meteorological Station SCM-1.

POWER UNIT PE-75-W

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: Z Z
 RATED: 6.5 HP @ 2,400 rpm
 CYLINDERS: 1 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.84 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy nickel steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,400 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 2 gals
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.65
 LUBRICATION SYSTEM: Pump and splash

CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball (mechanical)
 IGNITION: Flywheel magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Kurz & Root Co
 MODEL: Type A102
 TYPE OF GENERATOR: A-c, self-excited

RATING (AC):
 2.5 KW 2,500 WATTS
 120 VOLTS 22 AMPERES

POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

OPERATING SPEED: 1,800 rpm
 DRIVE: Belt-driven
 NUMBER & TYPE
 OF BEARINGS: 2 ball
 INSULATION: Class A

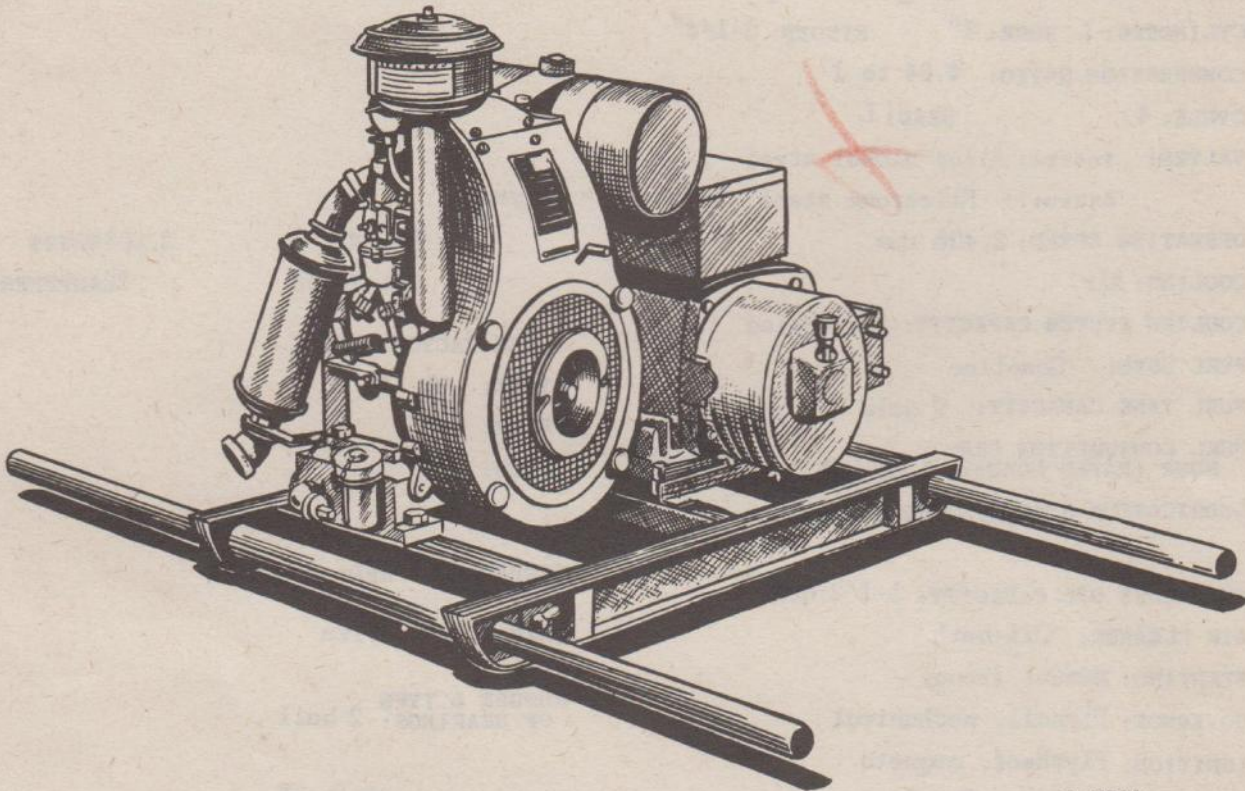
COMPLETE UNIT

LENGTH: 36" WIDTH: 19-1/2" HEIGHT: 26-1/2"
 WEIGHT: (NET) 324 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-900	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4575W

STATUS: Standard

POWER UNIT

PE-75-AB

TL95799

POWER UNIT PE-75-AB

(Above Illustration Differs Somewhat From The Actual Appearance of Generator).

Power Unit PE-75-AB is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine with an a-c, self-excited generator, belt-driven.

The engine is rated 6.5 horsepower at 2,400 revolutions per minute and consumes approximately 0.65 gallon of fuel per hour at rated load.

The generator is rated at 2.5 kilowatts, 60 cycles, single-phase, 120 volts, 22 amperes at 100 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Sets SCR-188; SCR-197; SCR-624; SCR-636; AN/TRC-1; Radio Terminal Set AN/TRC-3; Radio Relay Sets AN/TRC-4; and AN/TRC-9; Spotting Set AN/TVQ-1; Telephone Central Office Sets TC-1; TC-2; TC-10; and TC-20; Auxiliary Telephone Central Equipment AN/GTA-1 and TC-5; Telegraph Central Office Set TC-3; Telephone Terminal Set TC-21; Public Address Set AN/UIO-1 and Mobile Meteorological Station SCM-1.

POWER UNIT PE-75-AB

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: ZZ
 RATED: 6.5 HP @ 2,400 rpm
 CYLINDERS: 1 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.84 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy nickel steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,400 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 2 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.65 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Westinghouse Electric & Mfg Co
 MODEL: 28CX212
 TYPE OF GENERATOR: A-c, self-excited

 RATING:
 2.5 KW 2,500 WATTS
 120 VOLTS 22 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Belt-drive
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

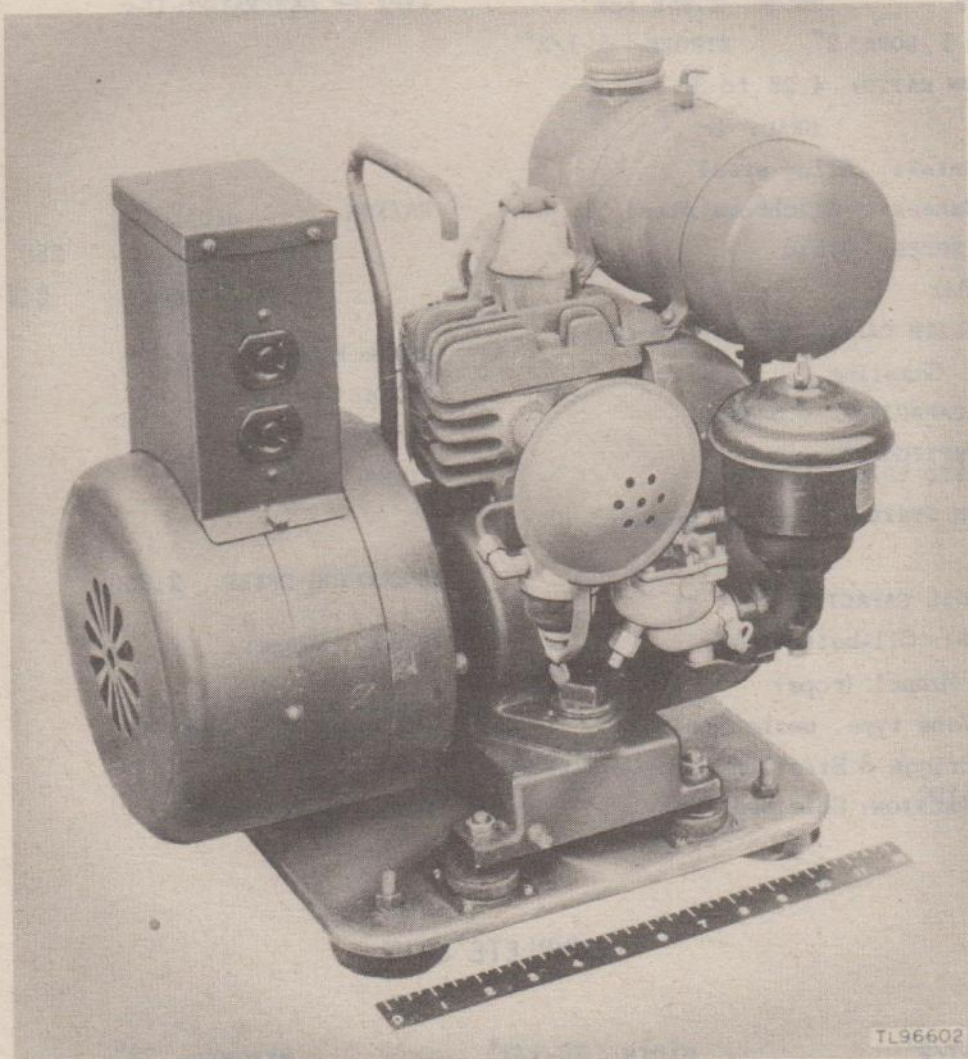
COMPLETE UNIT

LENGTH: 36" WIDTH: 19-1/2" HEIGHT: 26-1/2"
 WEIGHT: (NET) 324 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-900	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4575AB

STATUS: Standard

POWER UNIT

PE-77-A, -B, -C**POWER UNIT PE-77-A, -B, -C**

Power Unit PE-77-A, -B, -C is an electric generating set consisting of a 1-cylinder 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c generator.

The engine is rated 1.3 horsepower at 2,650 revolutions per minute and consumes approximately 0.2 gallon of gasoline per hour at rated load.

The generator is rated at 250 watts, 115 volts, 2.2 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Telegraph Printer EE-97 and EE-98; Teletypewriter Sets EE-97-A, EE-98-A, and EE-102.

POWER UNIT PE-77-A, -B, -C

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton Engine Co (gasoline)
 MODEL: IL
 RATED: 1.3 HP @ 2,650 rpm
 CYLINDERS: 1 BORE: 2" STROKE: 1-1/2"
 COMPRESSION RATIO: 4.26 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,650
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 0.5 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.2 gal
 LUBRICATION SYSTEM: Pump and splash

CRANKCASE OIL CAPACITY: 3/4 qt
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope)
 GOVERNOR: Vane type, mechanical
 IGNITION: Briggs & Stratton magneto Flywheel
 NOISE SUPPRESSION: Shielded ^{type}

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen-E-Motor Corp
 MODEL: 77
 TYPE OF GENERATOR: D-c

RATING:
 .25 KW 250 WATTS
 115 VOLTS 2.2 AMPERES

POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

OPERATING SPEED: 2,650
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: None
 INSULATION: Class A

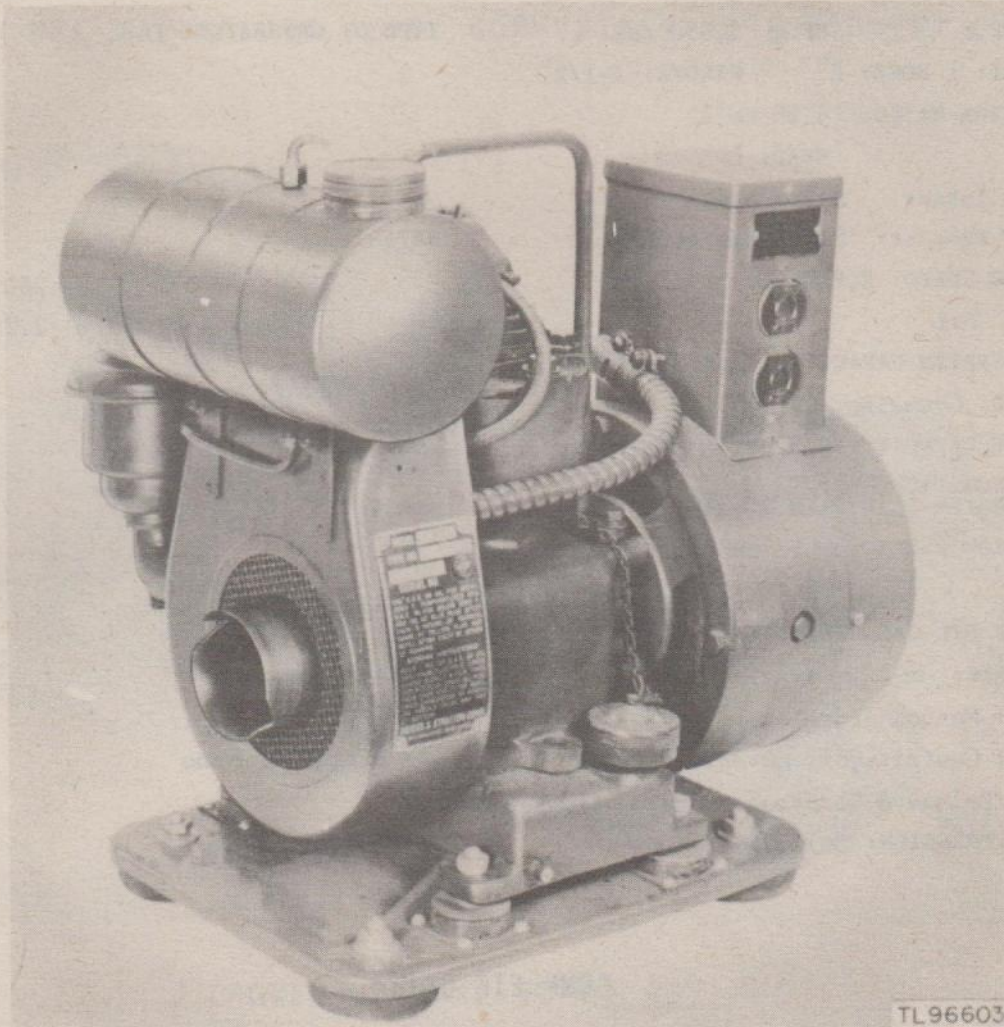
COMPLETE UNIT

LENGTH: 21-1/2" WIDTH: 16-1/2" HEIGHT: 22"
 WEIGHT: (NET) 90 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-903	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4577-A-B-C

STATUS: Standard

POWER UNIT

PE-77-D-E**POWER UNIT PE-77-D-E**

Power Unit PE-77-D-E is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to a d-c self-excited generator.

The engine is rated 1.3 horsepower at 2,650 revolutions per minute, and consumes approximately 0.2 gallon of fuel per hour at rated load.

The generator is rated at 250 watts, 115 volts, 2.2 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Telegraph Printer EE-97 and EE-98; Teletypewriter Sets EE-97-A, EE-98-A, and EE-102.

POWER UNIT PE-77-D, -E

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: I
 RATED: 1.3 HP @ 2,650 rpm
 CYLINDERS: 1 BORE: 2" STROKE: 1-1/2"
 COMPRESSION RATIO: 4.26 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,650 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 0.5 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.2 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 3/4 qt
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Centrifugal, Automatic type
 IGNITION: Briggs & Stratton magneto, flywheel type
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Pioneer-Gen-E-Motor Corp
 MODEL: 77
 TYPE OF GENERATOR: D-c.

 RATING:
 0.25 KW 250 WATTS
 115 VOLTS 2.2 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 2,650
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: None
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 21-1/2" WIDTH: 16-1/2" HEIGHT: 22"
 WEIGHT: (NET) 92 lb WEIGHT: (CRATED)

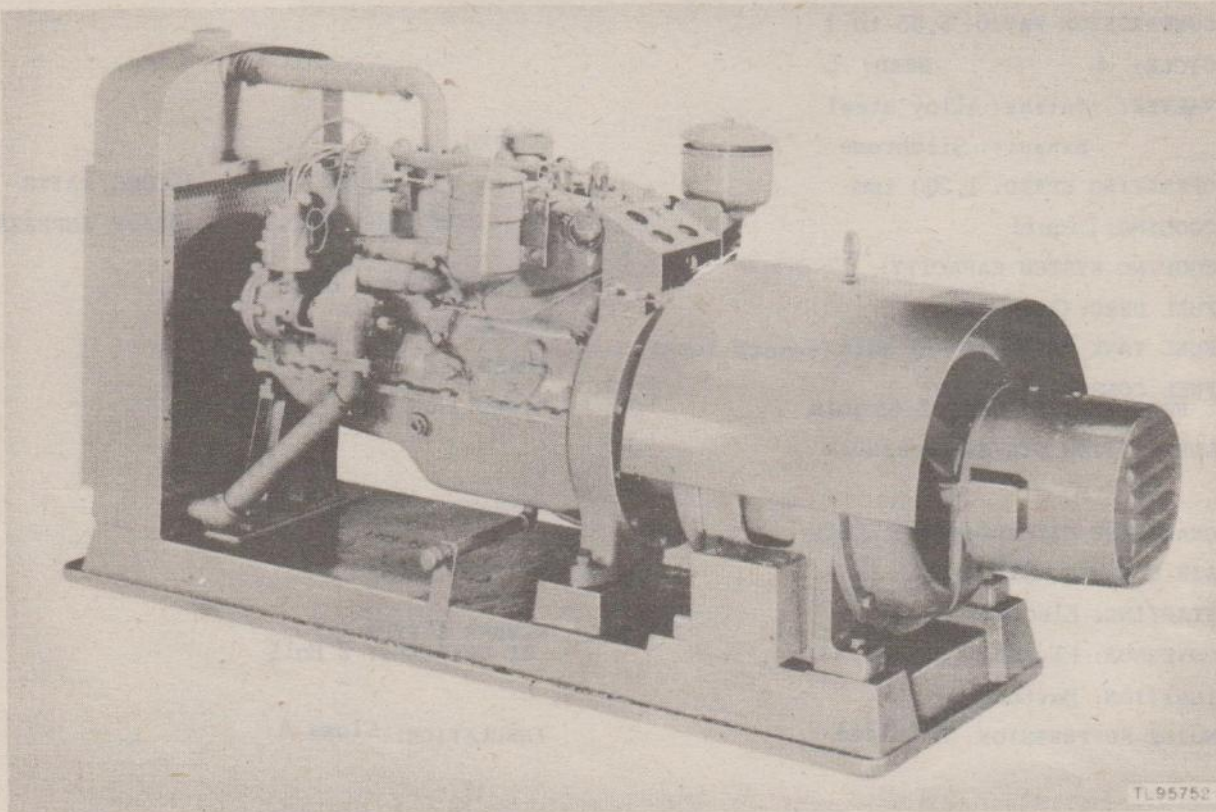
INSTRUCTIONAL LITERATURE TM 11-903	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4577-D-E

STATUS: SEE BELOW *

POWER UNIT

PE-78-F,-G,-H

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-78-F, -G, -H**

Power Unit PE-78-F, -G, -H is an electric generating set consisting of a 6-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 37 horsepower at 1,200 revolutions per minute, and consumes approximately 2.65 gallons of fuel per hour at rated load.

The generator is rated at 10 kilowatts, 60 cycles, single phase, 120/240 volts, 104/52 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

*Available and preferred for issue.

POWER UNIT PE-78-F, G, H

ENGINE CHARACTERISTICS

MAKE: Hercules Engine Co (gasoline)
 MODEL: JXB
 RATED: 37 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 3-5/8" STROKE: 4-1/4"
 COMPRESSION RATIO: 5.85 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 17 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10 gals (remote tank)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 2.65 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 7 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Flyball
 IGNITION: Battery
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Columbia Electric Co
 MODEL: Frame No. 20-14-5
 TYPE OF GENERATOR: A-c, revolving field

 RATING:
 10 KW 10,000 WATTS
 120/240 VOLTS 104/52 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 Ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 84" WIDTH: 25-3/4" HEIGHT: 40-1/2"
 WEIGHT: (NET) 2050 lb WEIGHT: (CRATED) 3060 lb

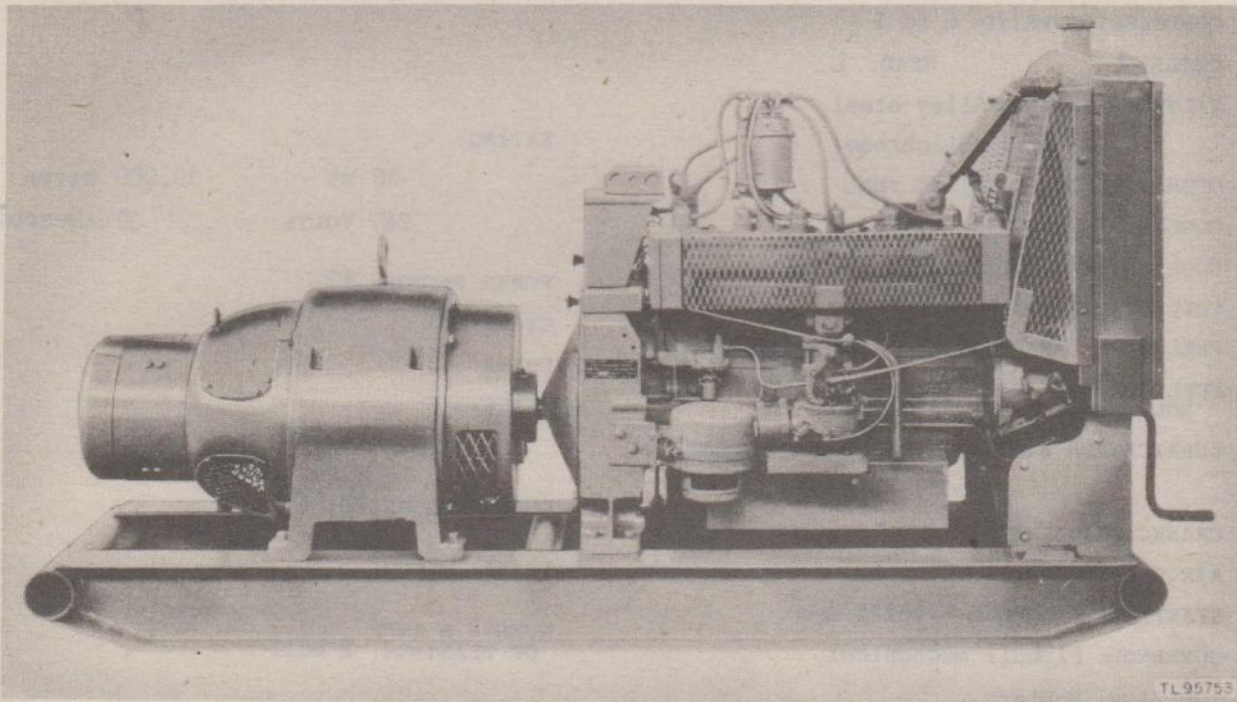
INSTRUCTIONAL LITERATURE TM 11-911	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4578F, G, H

STATUS: SEE BELOW *

POWER UNIT

PE-79-F

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-79-F**

Power Unit PE-79-F is an electric generating set consisting of a 6-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 26.3 horsepower at 1,200 revolutions per minute, and consumes approximately 2 gallons of fuel per hour at rated load.

The generator is rated at 10 kilowatts, 60 cycles, 3-phase, 240 volts, 30 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-79-F

ENGINE CHARACTERISTICS

MAKE: Continental (gasoline)
 MODEL: F266
 RATED: 26.3 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 3-5/16" STROKE: 4-3/8"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 16 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10 gals (remote tank)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 2 gals
 LUBRICATION SYSTEM: Force-feed & splash

 CRANKCASE OIL CAPACITY: 11 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric 6-volts d-c
 GOVERNOR: Flyball mechanical
 IGNITION: Battery
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Westinghouse
 MODEL: AC Type G Frame 6-15-6
 TYPE OF GENERATOR: A-c. revolving field

 RATING:
 10 KW 10,000 WATTS
 240 VOLTS 30 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 81-3/4" WIDTH: 26" HEIGHT: 43-1/2"
 WEIGHT: (NET) 1,680 lb WEIGHT: (CRATED)

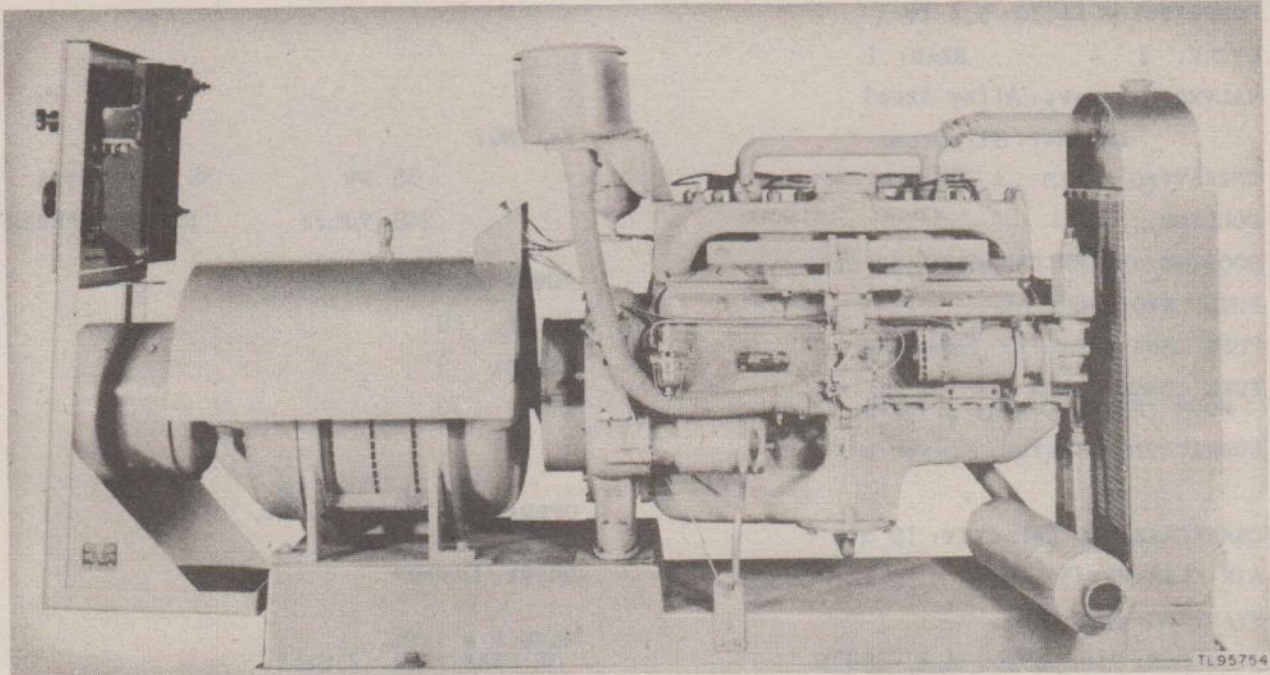
INSTRUCTIONAL LITERATURE TM 11-912-F	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4579F

STATUS: SEE BELOW *

POWER UNIT

PE-81-F

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-81-F

Power Unit PE-81-F is an electric generating set consisting of a 6-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 83 horsepower at 1,200 revolutions per minute and consumes approximately 8 gallons of fuel per hour at rated load.

The generator is rated at 35 kilowatts, 60 cycles, 3-phase, 240 volts, 105.3 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* No more to be procured but limited supply available for issue.

POWER UNIT PE-81-F

ENGINE CHARACTERISTICS

MAKE: Hercules (gasoline)
 MODEL: RXID
 RATED: 83 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-3/4" STROKE: 5-1/4"
 COMPRESSION RATIO: 5.4 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 48 qts.
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 8 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 10 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Pierce No. M.A.-1007B
 IGNITION: Battery
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Columbia Electric Co
 MODEL: Frame 2216-6.75
 TYPE OF GENERATOR: A-c, revolving field

 RATING:
 35 KW 35,000 WATTS
 240 VOLTS 105.3 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE
 OF BEARINGS: 2 Ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 100-1/4" WIDTH: 31" HEIGHT: 49-3/8"
 WEIGHT: (NET) 3,705 lb WEIGHT: (CRATED)

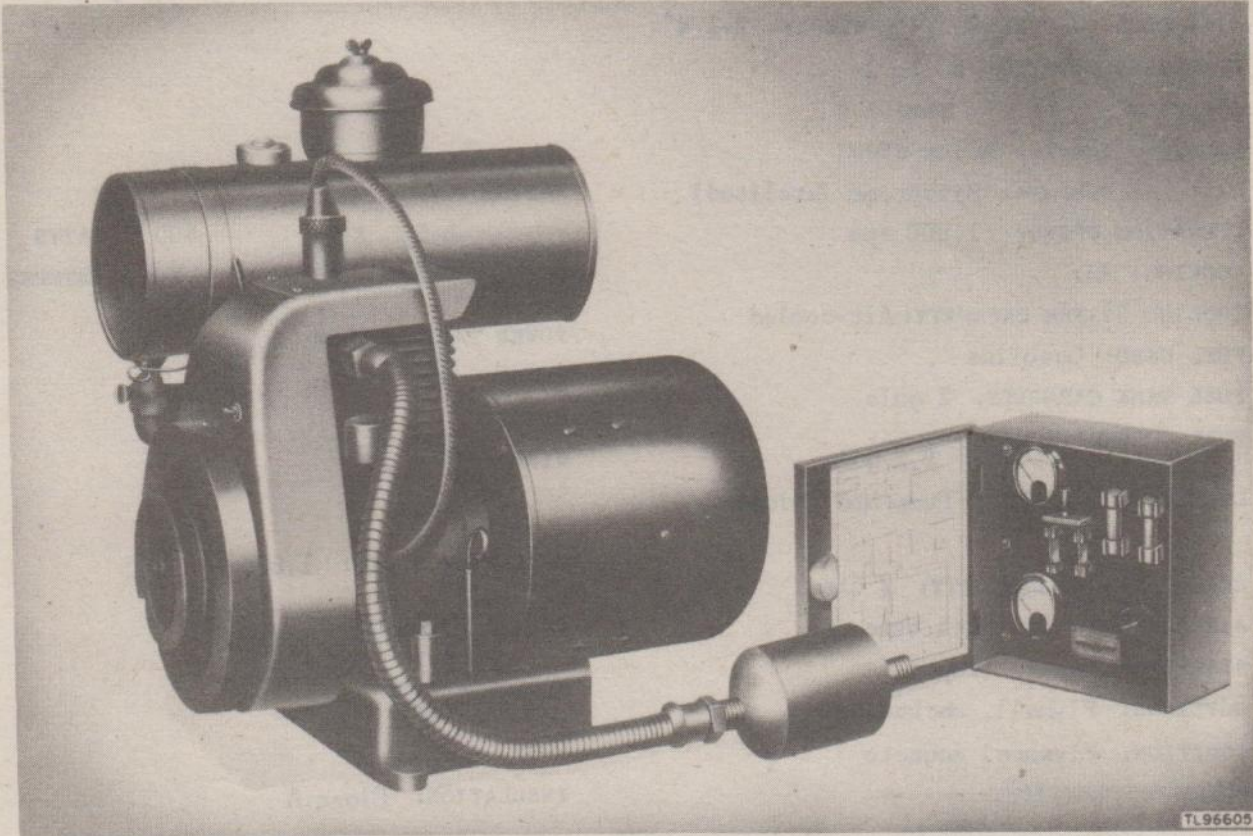
<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4581F/B1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Plant Engineering Agency</p>
	<p>STOCK NO. 3H4581F</p>

STATUS: Obsolete

DATE APPROVED: 6 Nov 44

POWER UNIT

PE-82-E



POWER UNIT PE-82-E

Power Unit PE-82-E is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 1.45 horsepower at 1,800 revolutions per minute, and consumes, approximately 0.2 gallon of fuel per hour at rated load.

The generator is rated at 500 watts, 60 cycles, single phase, 110 volts, 5.6 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Aircraft Warning Service equipment.

POWER UNIT PE-82-E

ENGINE CHARACTERISTICS

MAKE: Lauson Co (gasoline)
 MODEL: TLC
 RATED: 1.45 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome (stelited)
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 2 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.2 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 2 qts
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel magneto
 NOISE SUPPRESSION: -----

GENERATOR CHARACTERISTICS

MAKE: Marathon Electric Mfg Corp
 MODEL: AG stock No. 3H2456 (2-76)
 TYPE OF GENERATOR: A-c revolving field.

 RATING:
 0.5 KW 500 WATTS
 110 VOLTS 5.6 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: None

 INSULATION: Class A

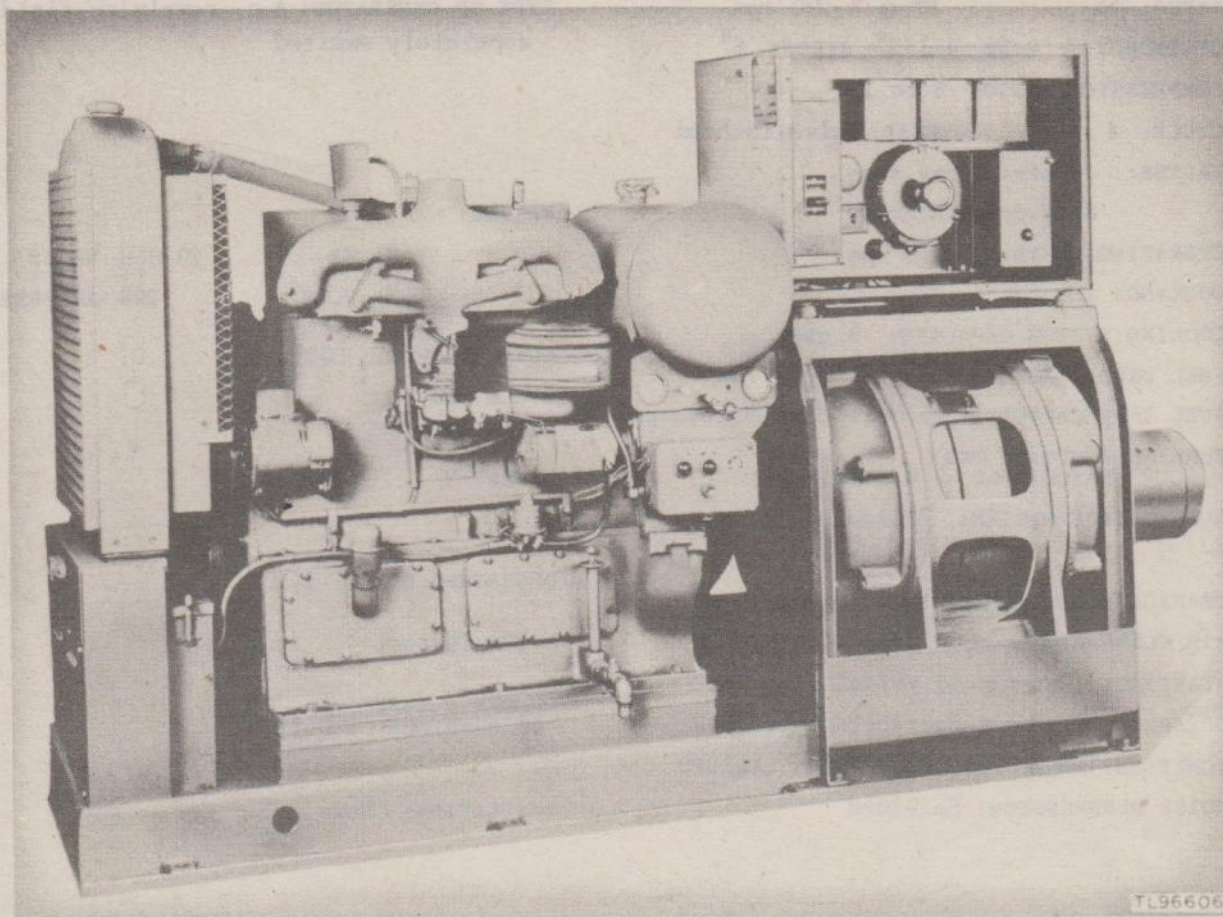
COMPLETE UNIT

LENGTH: 22" WIDTH: 20-3/4" HEIGHT: 15-3/4"
 WEIGHT: (NET) 149 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-928	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY:
	STOCK NO. 3H4582-E

STATUS: Standard

POWER UNIT

PE-84-A**POWER UNIT PE-84-A**

Power Unit PE-84-A is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving field, separately excited type.

The engine is rated 55 horsepower at 1,200 revolutions per minute and consumes approximately 4 gallons of fuel per hour at rated load.

The generator is rated at 20 kilowatts 60 cycles, single phase, 120 volts, 208 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-268 and SCR-296; and Radio Compass SCR-269.

POWER UNIT PE-84-A

ENGINE CHARACTERISTICS

MAKE: LeRoi Co (gasoline)
 MODEL: D382
 RATED: 55 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 4-1/2" STROKE: 6"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 9 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 15 gals or remote supply
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 4 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 28 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric 12 volts
 GOVERNOR: Woodward Hydraulic Type SG
 IGNITION: Bosch Type MJB4A-314, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Westinghouse Electric & Mfg Co
 MODEL: Type G Frame 6-24-6
 TYPE OF GENERATOR: A-c, revolving-field, separately excited

 RATING:
 20 KW 20,000 WATTS
 120 VOLTS 208 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

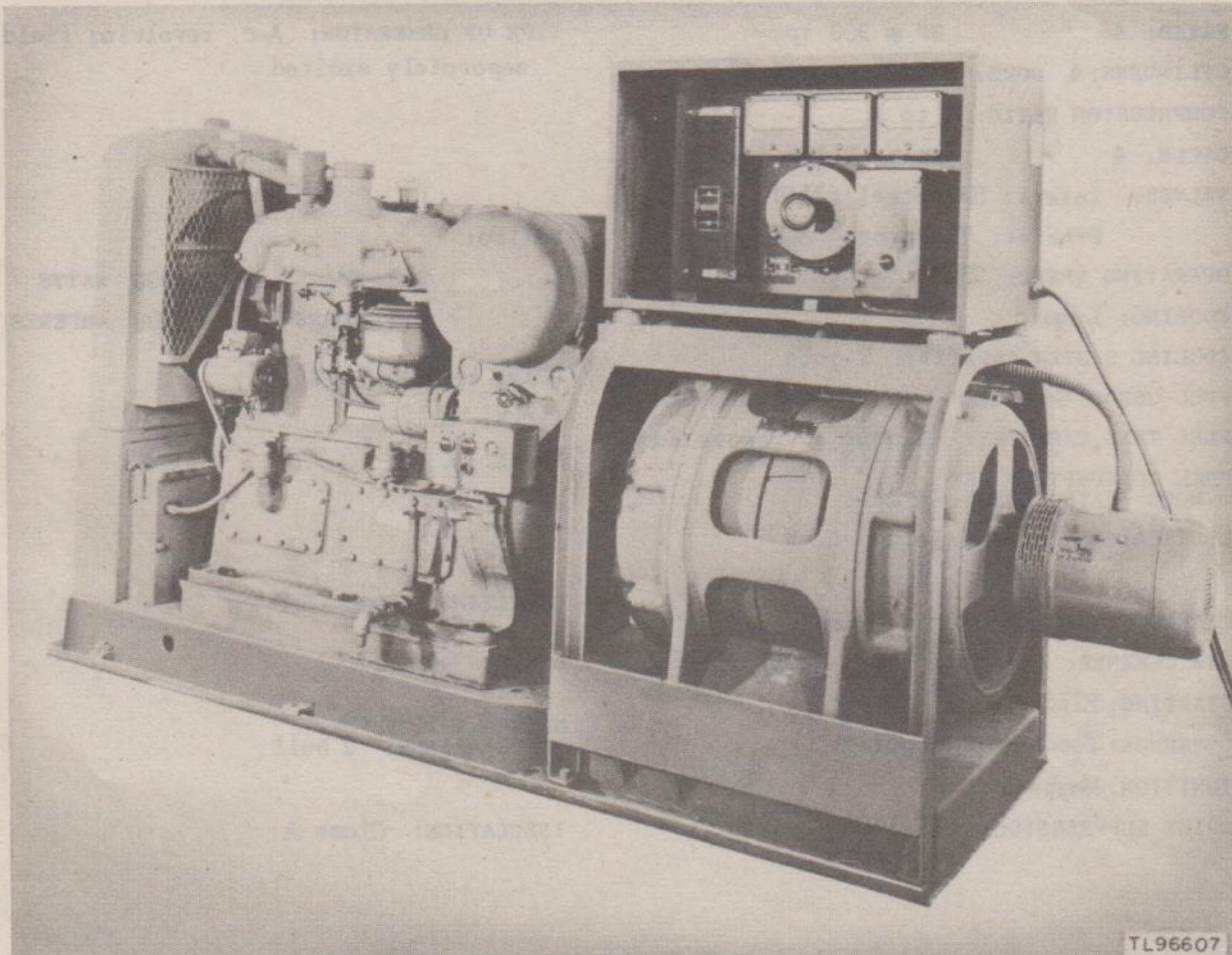
LENGTH: 110-3/8" or 111-3/4" WIDTH: 32" or 35" HEIGHT: 58-3/16" or 64-1/8"
 WEIGHT: (NET) 4900 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-915	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4584-A

STATUS: Standard

POWER UNIT

PE-84-C-D



POWER UNIT PE-84-C, -D

Power Unit PE-84-C, -D is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving field type, separately excited.

The engine is rated 46 horsepower at 900 revolutions per minute, and consumes approximately 4 gallons of fuel per hour at rated load.

The generator is rated at 20 kilowatts, 60 cycles, single phase, 120 volts, 208 amperes at 80 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Sets SCR-268, SCR-296, and SCR-516.

POWER UNIT PE-84-C, -D

ENGINE CHARACTERISTICS

MAKE: LeRoi Co (gasoline)
 MODEL: D384
 RATED: 46 HP @ 900 rpm
 CYLINDERS: 4 BORE: 4-1/2" STROKE: 6"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: SAE-Steel #3140
 Exhaust: Thompson - XCR
 OPERATING SPEED: 900
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 9 gals
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 15 gals or remote supply
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 4 gals
 LUBRICATION SYSTEM: Forced-feed

 CRANKCASE OIL CAPACITY: 28 qts
 AIR CLEANER: Oil-bath type, Model 37U-OBF
 STARTING: Electric 12 volts Airmaze
 GOVERNOR: Woodward Hydraulic
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Westinghouse Electric & Mfg Co
 MODEL: G Frame 8-24-6
 TYPE OF GENERATOR: A-c, revolving field, separately excited

 RATING:
 20 KW 20,000 WATTS
 120 VOLTS 208 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

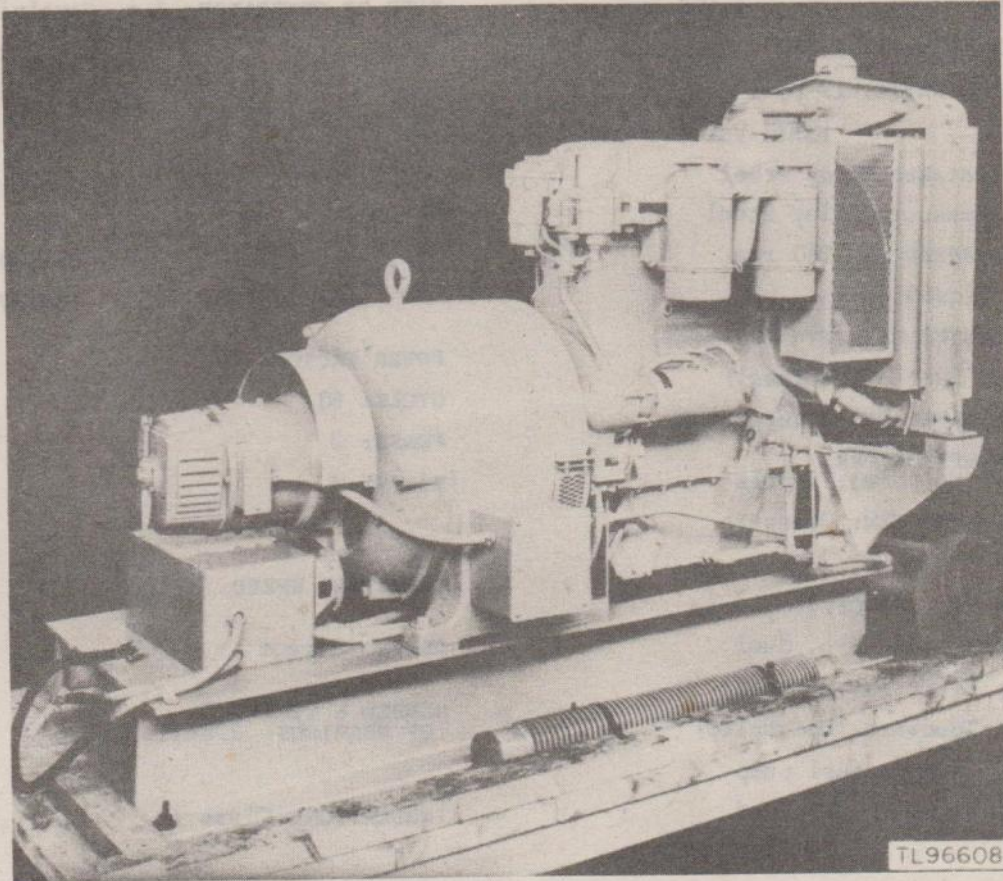
 OPERATING SPEED: 900
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 111-3/4" WIDTH: 35" HEIGHT: 64-1/8"
 WEIGHT: (NET) 5,000 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-915	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4584-C-D

POWER UNIT

PE 85-A,B,C,D,F**POWER UNIT PE-85-A, -B, -C, -D, -F**

Power Unit PE-85-A, -B, -C, -D, -F is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, full-Diesel engine, directly connected to an a-c generator of the revolving-field type.

The engine is rated 60-horsepower at 1,200 revolutions per minute, and consumes approximately 3 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3-phase, 120/208 volts, 150/87 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set SCR-270, SCR-271, and SCR-615.

POWER UNIT PE-85-A, -B, -C, -D, -F

ENGINE CHARACTERISTICS

MAKE: Cummins Engine Co (Diesel)
 MODEL: HI-400
 RATED: 60 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 4-7/8" STROKE: 6"
 COMPRESSION RATIO: 17 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Alloy steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 11 gals.
 FUEL USED: Fuel oil (Diesel)
 FUEL TANK CAPACITY: Underground
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 3 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 30 qts
 AIR CLEANER: Oil-bath, dual
 STARTING: Electric, 32 volts
 GOVERNOR: Woodward (Hydraulic)
 IGNITION: Cummins fuel pump
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: S-105-X
 TYPE OF GENERATOR: A-c, revolving-field

 RATING:
 25 KW 25,000 WATTS
 120/208 VOLTS 150/87 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 1 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 95" WIDTH: 38-1/2" HEIGHT: 62"
 WEIGHT: (NET) 5300 lb WEIGHT: (CRATED)

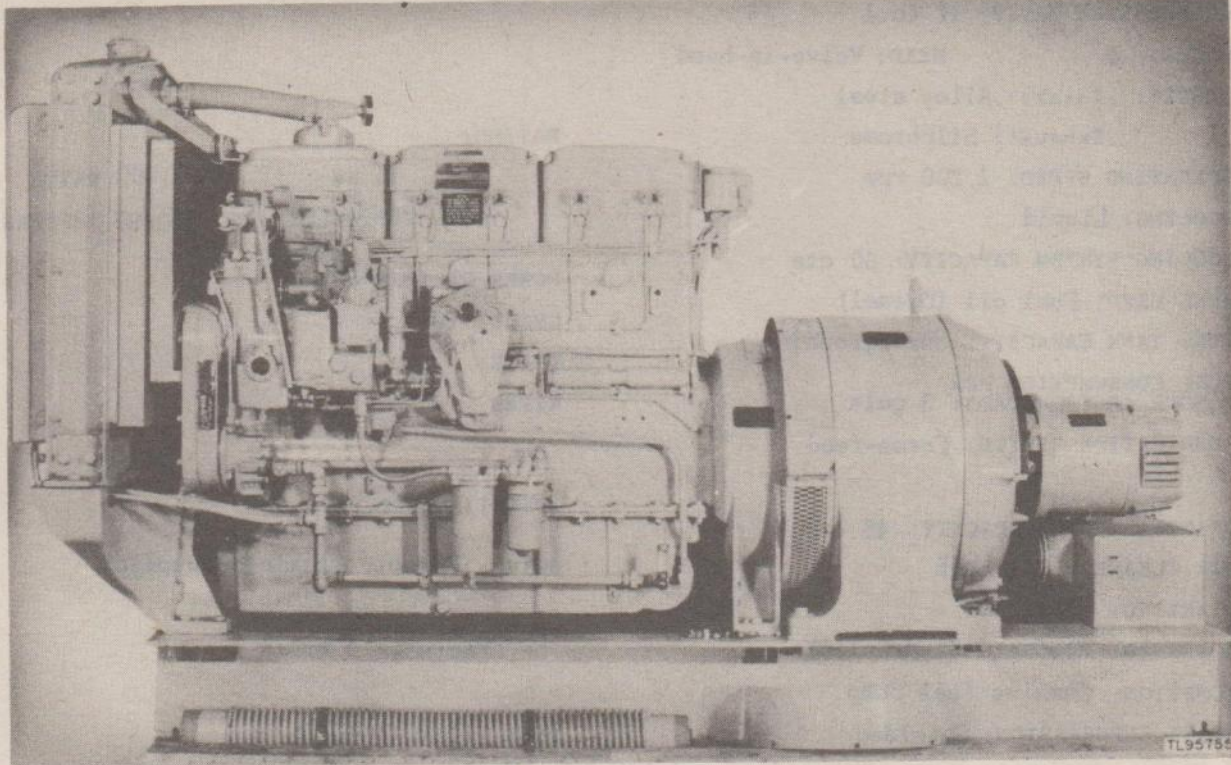
<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4585A/1 for PE-85-A, -B, -C, -D. Instruction Book, stock No. 3H4585F/B1 for PE-85-F</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4585A, B, C, D, & F</p>

STATUS: SEE BELOW *

POWER UNIT

PE-85-G

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-85-G

Power Unit PE-85-G is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting full-Diesel engine, directly connected to an a-c generator.

The engine is rated 150 horsepower at 1,200 revolutions per minute, and consumes approximately 3 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3-phase, 120/208 volts, 150/87 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Fixed Plant Communication Equipment exclusively.

* Limited supply available for issue. No more to be procured.

POWER UNIT PE-85-G

ENGINE CHARACTERISTICS

MAKE: Cummins Electric Co (Diesel)
 MODEL: HI-600
 RATED: 150 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-7/8" STROKE: 6"
 COMPRESSION RATIO: 17 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 60 qts
 FUEL USED: Fuel oil (Diesel)
 FUEL TANK CAPACITY: Underground
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 3 gals
 LUBRICATION SYSTEM: Force-feed

 CRANKCASE OIL CAPACITY: 48 qts.
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Woodward (hydraulic)
 IGNITION: Cummins fuel pump
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: S-105-X
 TYPE OF GENERATOR: S-105-X - A-c

 RATING:
 25 KW 25,000 WATTS
 120/208 VOLTS 150/87 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200
 DRIVE: Direct, flexible coupling

 NUMBER & TYPE OF BEARINGS: 1 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 107" WIDTH: 35" HEIGHT: 63"
 WEIGHT: (NET) 5,300 lb WEIGHT: (CRATED)

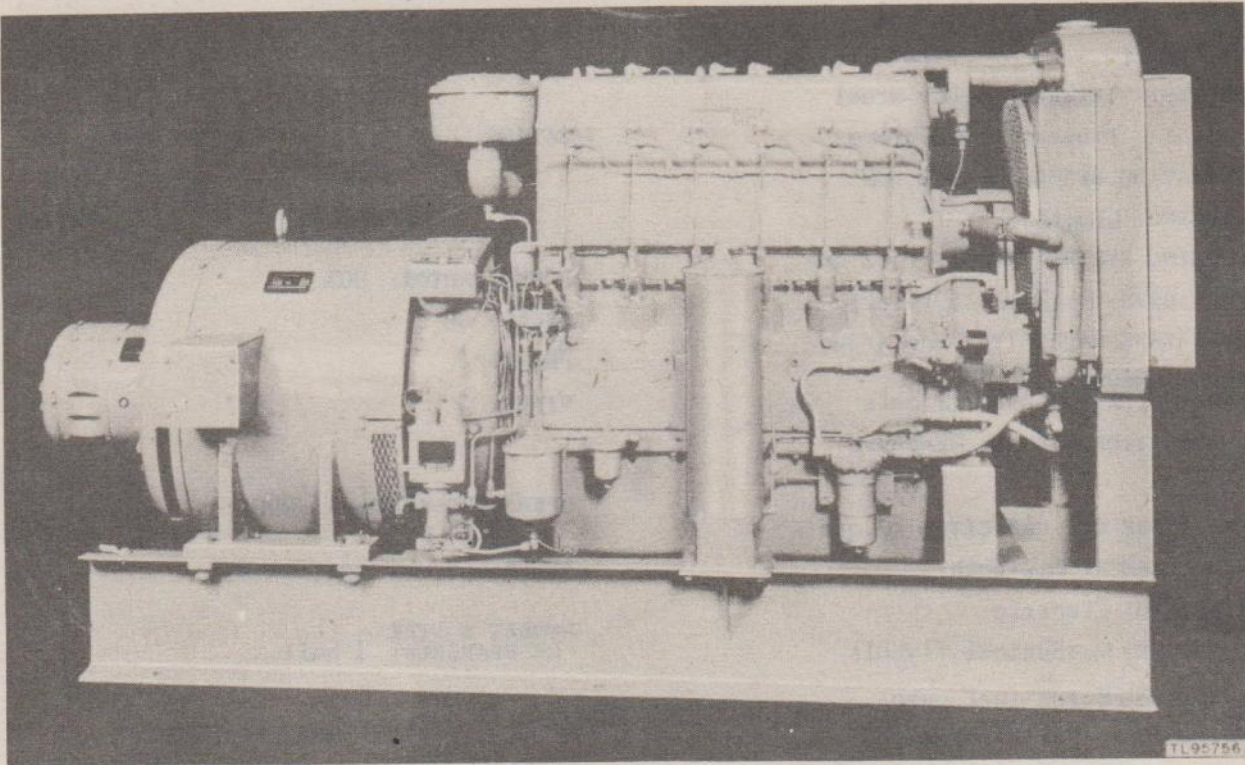
INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4585G/B1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4585G

STATUS: SEE BELOW *

POWER UNIT

PE-85-L

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-85-L**

Power Unit PE-85-L is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting full-Diesel engine, directly connected to an a-c generator, with direct connected exciter.

The engine is rated 44-horsepower at 1,200 revolutions per minute, and consumes approximately 3 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3-phase, 230 volts, 79 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-85-L

ENGINE CHARACTERISTICS

MAKE: Hill Diesel
 MODEL: Hill 6 R
 RATED: 44 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 3-1/2" STROKE: 5-1/2"
 COMPRESSION RATIO: 17 to 1.
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 32 qts
 FUEL USED: Fuel oil (Diesel)
 FUEL TANK CAPACITY: Underground
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 3 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 40 qts
 AIR CLEANER: Oil-Bath
 STARTING: Electric
 GOVERNOR: Mechanical flyball
 IGNITION: Bosch fuel pump
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Rogers Diesel & Aircraft Corp
 MODEL: S 110
 TYPE OF GENERATOR: A-c, with direct connected excitation.

 RATING:
 25 KW 25,000 WATTS
 230 VOLTS 79 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct-connected
 NUMBER & TYPE OF BEARINGS: 1 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 95" WIDTH: 38-1/2" HEIGHT: 62"
 WEIGHT: (NET) 5,300 lbs WEIGHT: (CRATED)

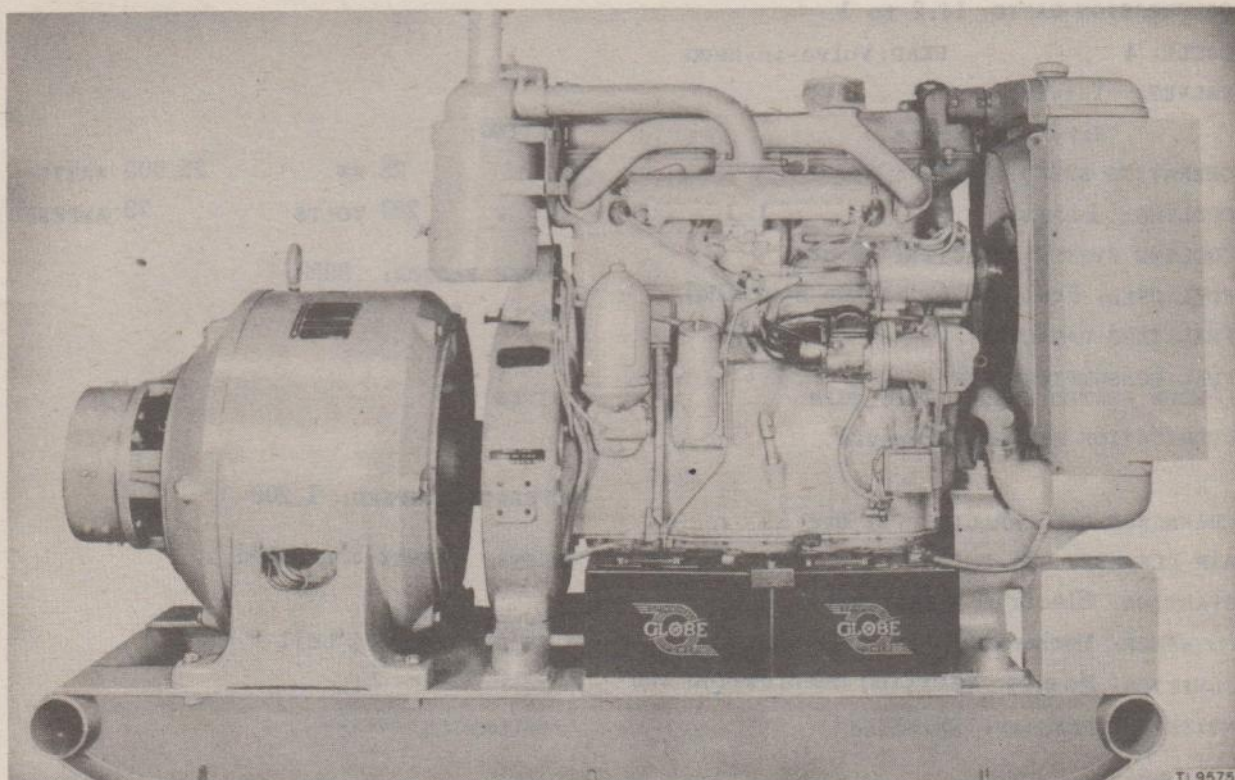
INSTRUCTIONAL LITERATURE TM 11-916L (when published)	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4585L

STATUS: SEE BELOW *

POWER UNIT

PE-85-M

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-85-M**

Power Unit PE-85-M is an electric generating set consisting of a 4-cylinder, 4-cycle, liquid-cooled, (electric-starting on gasoline) Diesel engine, directly connected to an a-c generator.

The engine is rated 45.5 horsepower at 1,200 revolutions per minute and consumes approximately 2.28 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3-phase, 230 volts, 79 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-85-M

ENGINE CHARACTERISTICS

MAKE: International Harvester Co (Diesel)
 MODEL: U D-9
 RATED: 45.5 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 4.4" STROKE: 5.5"
 COMPRESSION RATIO: 14.2 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: -----
 Exhaust: -----
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 52 qts
 FUEL USED: Fuel oil (gasoline starting)
 FUEL TANK CAPACITY: -----
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 2.28 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 11 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric (gasoline)
 GOVERNOR: Mechanical
 IGNITION: Magneto starting compression run
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: S-105-X
 TYPE OF GENERATOR: A-c

 RATING:
 25 KW 25,000 WATTS
 230 VOLTS 79 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct-connected
 NUMBER & TYPE OF BEARINGS: 2 ball
 INSULATION: -----

COMPLETE UNIT

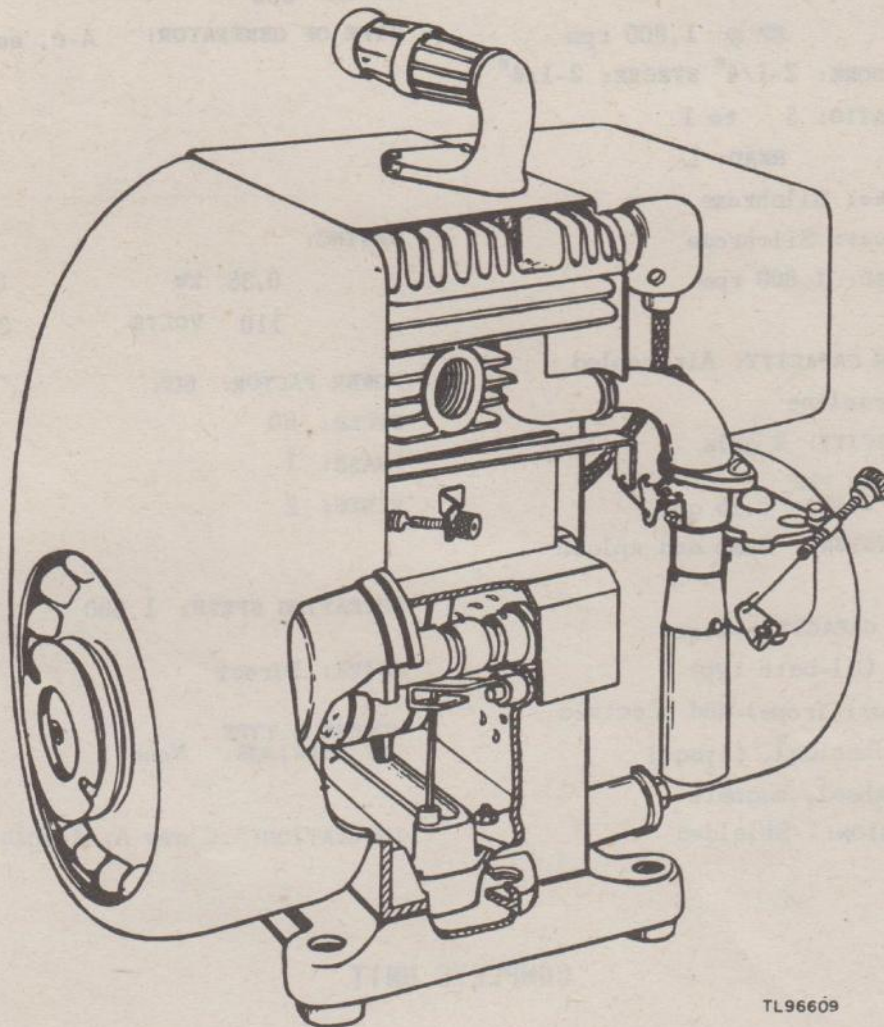
LENGTH: 88-3/4" WIDTH: 34-3/8" HEIGHT: 60-1/2"
 WEIGHT: (NET) WEIGHT: (CRATED) 5,400 lb

INSTRUCTIONAL LITERATURE TM 11-916-M (when published)	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4565M

STATUS: Substitute standard

POWER UNIT

DATE APPROVED: 28 Oct 43

PE-88 & PE-88-A

POWER UNIT PE-88; PE-88-A

Power Unit PE-88, PE-88-A is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual- (rope) and electric-starting, gasoline engine, directly connected to an a-c self-exciting generator.

The engine is rated 1 horsepower at 1,800 revolutions per minute, and consumes approximately 0.15 gallon of fuel per hour at rated load.

The generator is rated at 350 watts, 60 cycles, single phase, 110 volts, 3.2 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Marker Beacon Set AN/MRN-3; Transmitting Equipment AN/TRW-1; and Target Control Transmitting Equipment RC-56.

POWER UNIT PE-88; PE-88-A

ENGINE CHARACTERISTICS

GENERATOR CHARACTERISTICS

MAKE: D.W. Onan & Sons (gasoline)
 MODEL: 358-S
 RATED: 1 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: 5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 2 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.15 gal
 LUBRICATION SYSTEM: Pump and splash

MAKE: D.W. Onan & Sons
 MODEL: 358
 TYPE OF GENERATOR: A-c, self-excited

RATING:
 0.35 KW 350 WATTS
 110 VOLTS 3.2 AMPERES

POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath type
 STARTING: Manual (rope) and electric
 GOVERNOR: Mechanical, flyball
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: None
 INSULATION: Class A, double dip.

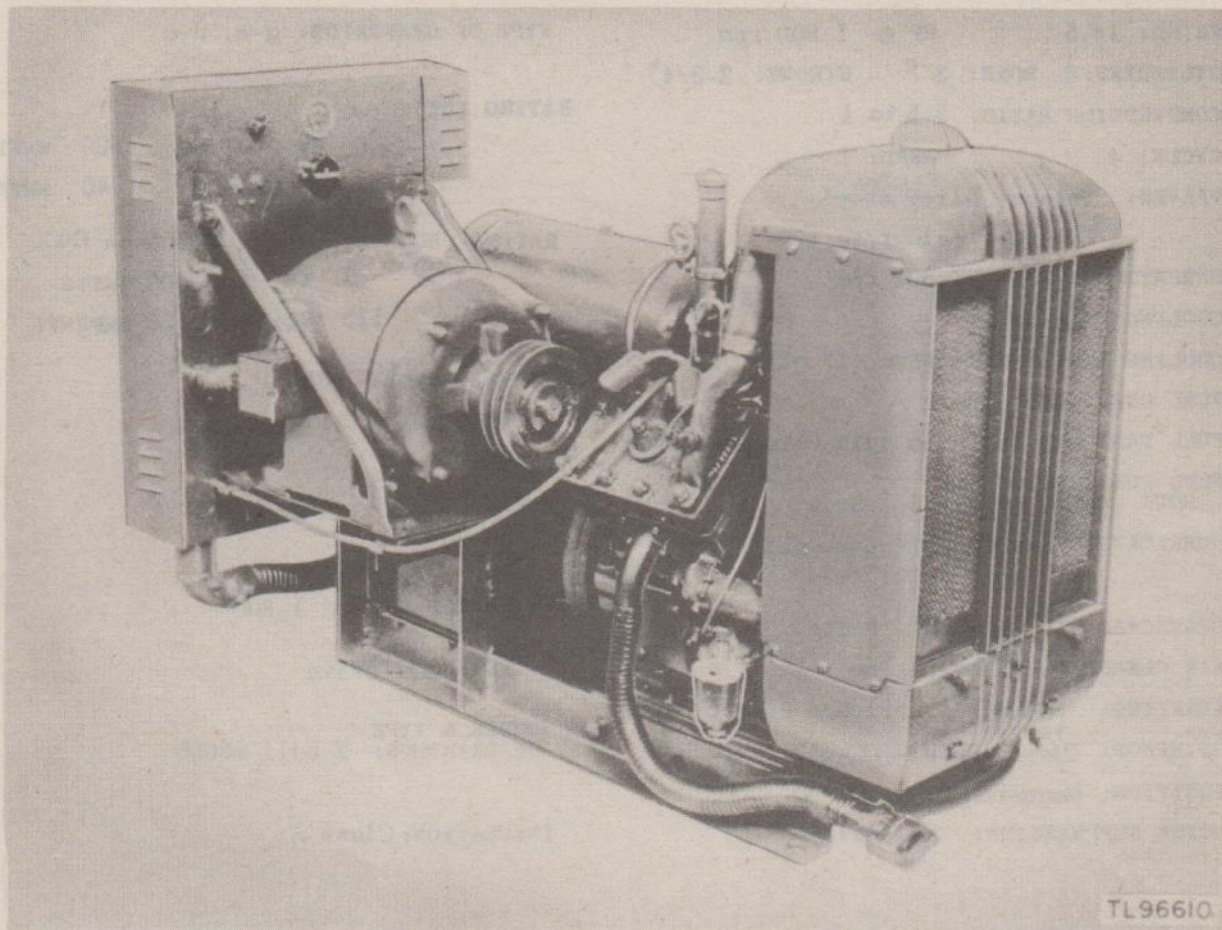
COMPLETE UNIT

LENGTH: 15-1/2" WIDTH: 9-1/2" HEIGHT: 14-1/2"
 WEIGHT: (NET) 118 lb WEIGHT: (CRATED) -----

INSTRUCTIONAL LITERATURE Instruction Book	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4588.1 (For PE-88)

STATUS: Standard

POWER UNIT

PE-90-A-B-C-D**POWER UNIT PE-90-A, -B, -C, -D**

Power Unit PE-90-A, -B, -C, -D is an electric generating set consisting of a V-type, 4-cylinder, 4-cycle, L-head, liquid-cooled, manual-(crank) and electric-starting, gasoline engine with an a-c and d-c generator, belt-driven. This unit is provided with an electric motor for driving the generators in place of the gasoline engine when commercial power is available.

The engine is rated 14.5 horsepower at 1,800 revolutions per minute, and consumes approximately 1.1 gallons of fuel per hour at rated load.

The generator has two windings; 3 kilowatts, 400 cycles, single phase, 115 volts, 26 amperes at 100 percent power factor; and 600 watts at 14 volts, 40 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-277-A, B, C, D.

POWER UNIT PE-90-A, -B, -C, -D

ENGINE CHARACTERISTICS

MAKE: D. W. Onans & Sons (gasoline)
 MODEL: V-45-M
 RATED: 14.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 3 " STROKE: 2-3/4"
 COMPRESSION RATIO: 5.5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 17 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals (remote tank)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.1 gals
 LUBRICATION SYSTEM: Pressure and spray

 CRANKCASE OIL CAPACITY: 8 qts
 AIR CLEANER: Oil-bath type
 STARTING: Manual (crank) and electric, 12 volts
 GOVERNOR: Pierce Model- CC-413
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D. W. Onans & Sons
 MODEL:
 TYPE OF GENERATOR: a-c, d-c
 RATING (DC):
 .6 KW 600 WATTS
 14 VOLTS 40 AMPERES
 RATING (AC): 4,000 on ENG.
 3 KW 3,000 WATTS
 115 VOLTS 26 AMPERES
 POWER FACTOR: 100%
 CYCLE: 400
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Belt-drive
 NUMBER & TYPE OF BEARINGS: 2 ball #5055
 INSULATION: Class A

COMPLETE UNIT

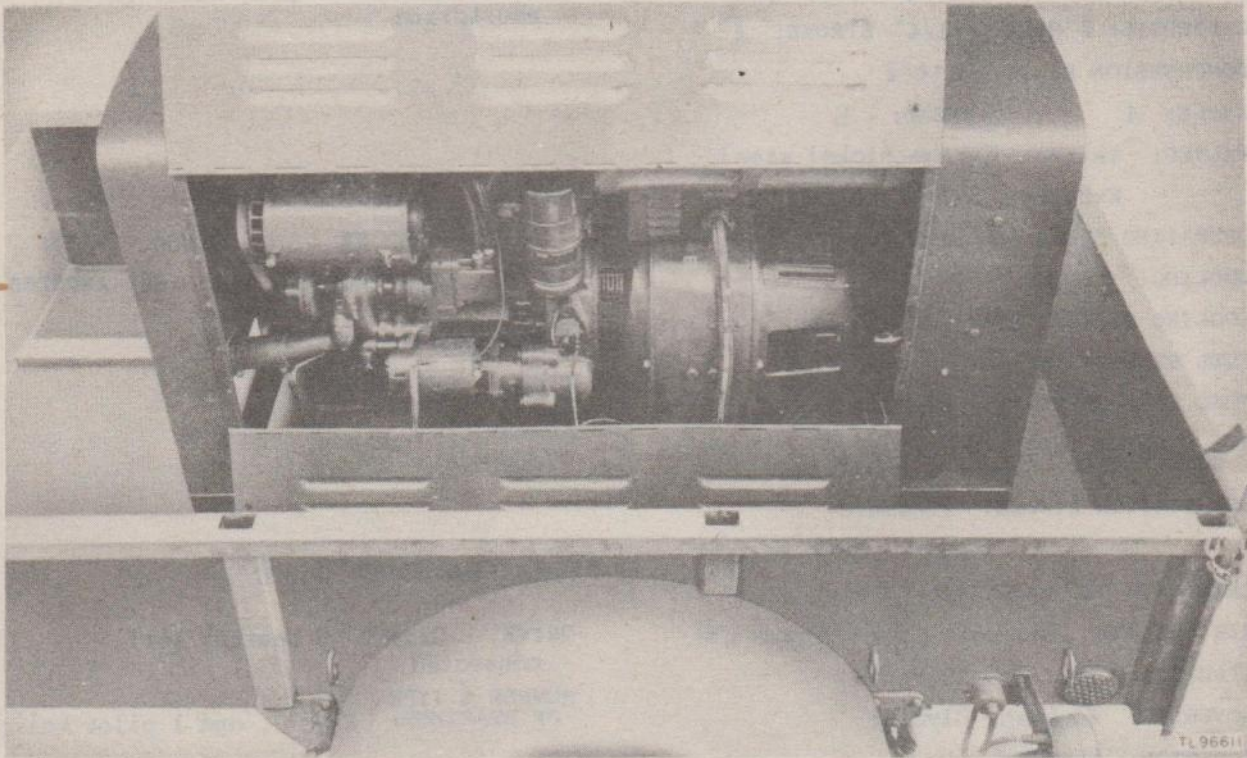
LENGTH: 51" WIDTH: 37" HEIGHT: 35"
 WEIGHT: (NET) 1,200 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE Instruction Book, Stock No. 3H4590A/1 for PE-90-A.	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY:
	STOCK NO. 3H4590-A, B, -C, -D

STATUS: Obsolete

POWER UNIT

DATE APPROVED: 2 Nov 44

PE-92-A, -B**POWER UNIT PE-92-A, -B**

Power Unit PE-92-A, -B is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the integral-exciter type.

The engine is rated 19.5 horsepower at 1,200 revolutions per minute, and consumes approximately 1.5 gallons of fuel per hour at rated load.

The generator is rated at 6 kilowatts, 60 cycles, single phase, 110 volts, 68 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps mobile radio repair shops.

POWER UNIT PE-92-A, -B

ENGINE CHARACTERISTICS

MAKE: Waukesha Motor Co (gasoline)
 MODEL: FC
 RATED: 19.5 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-1/4" STROKE: 4"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 20 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 12 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.5 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 8 qts
 AIR CLEANER: Oil-bath type (Vortex Co)
 STARTING: Electric, 12 Volts
 GOVERNOR: Waukesha Flyball
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Marble Card Co
 MODEL: Frame 8
 TYPE OF GENERATOR: A-c, built-in excitation

 RATING:
 6 KW 6,000 WATTS
 110 VOLTS 68 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,200

 DRIVE: Direct (3 bearing set) connected
 NUMBER & TYPE OF BEARINGS: 1 ball, and 1 pilot ball

 INSULATION: Class A

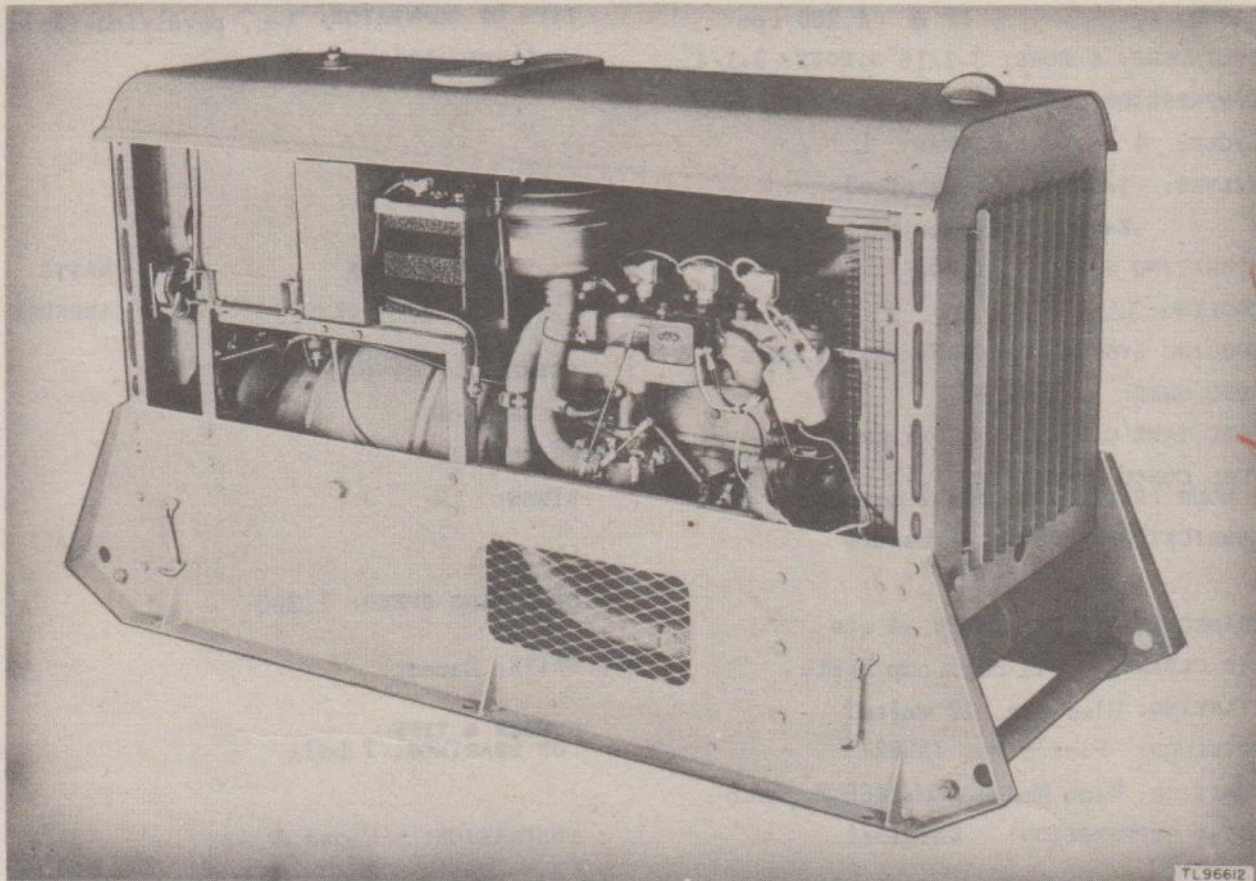
COMPLETE UNIT

LENGTH: 64" WIDTH: 21-1/2"p HEIGHT: 38-1/2"
 WEIGHT: (NET) 1,560 lb WEIGHT: (CRATED) 1,940 lb

<p>INSTRUCTIONAL LITERATURE TM 11-905 for PE-92-B</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY:</p>
	<p>STOCK NO. 3H4592A and B</p>

STATUS: Standard

POWER UNIT

PE-95-A, -B, -C**POWER UNIT PE-95-A, -B, -C**

Power Unit PE-95-A, -B, -C is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving-field, self-excited type.

The engine is rated 20 horsepower at 1,200 revolutions per minute, and consumes approximately 1.2 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 115 volts, 54.8 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-292, SCR-299, SCR-399, SCR-499, SCR-696, SCR-698, AN/TRC-5, AN/TRC-6, AN/FRC-2; Radio Direction Finder Central TC-8; Radio Intercept Central TC-9; Wire Repair Station AN/MTM-1, AN/MTM-2, and AN/MTM-3; Radio Control Central AN/TRQ-1.

POWER UNIT 'PE-95-A, -B, -C

ENGINE CHARACTERISTICS

MAKE: Ford Motor Co (gasoline)
 MODEL: ONY
 RATED: 20 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-3/16" STROKE: 3-1/4"
 COMPRESSION RATIO: 6.1 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Chrome nickel Alloy
 OPERATING SPEED: 1,200
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 4-1/4 gals
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10.5 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.2 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Oil-bath cap 2 pts
 STARTING: Electric, 12 volts
 GOVERNOR: Pierce No. 75862
 IGNITION: Wico Model JEM-1460 Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D. W. Onan & Sons
 MODEL: -----
 TYPE OF GENERATOR: A-c, revolving-field, self-excited

 RATING:
 5 KW 5,000 WATTS
 115 VOLTS 54.8 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1 ball

 INSULATION: Class A

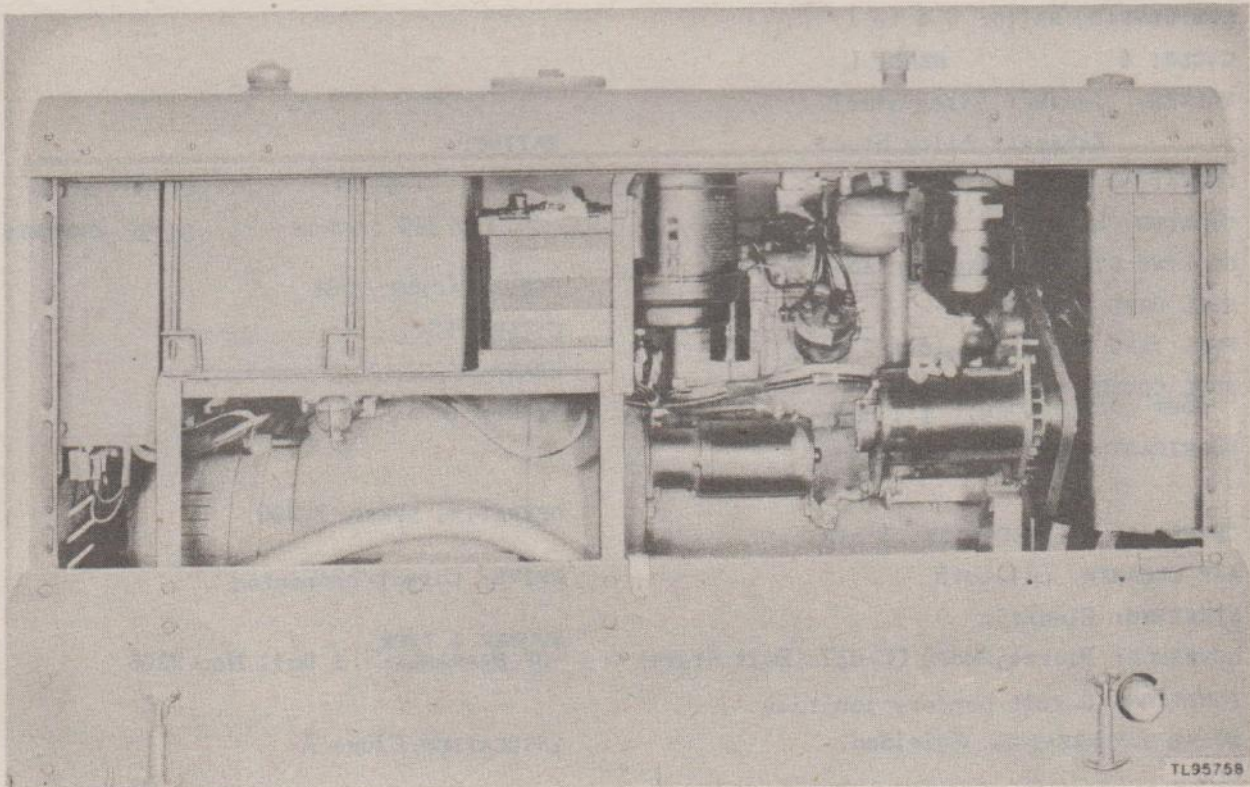
COMPLETE UNIT

LENGTH: 72-1/2" WIDTH: 27-1/2" HEIGHT: 38-1/2"
 WEIGHT: (NET) 1,497 lb WEIGHT: (CRATED) 1,700 lb

INSTRUCTIONAL LITERATURE TM 11-904	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4595-A, -B, -C

STATUS: SEE BELOW * 7-22-39 GENERATOR CHARACTERISTICS	POWER UNIT PE-95-F
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FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-95-F

Power Unit PE-95-F is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 24 horsepower at 1,200 revolutions per minute, and consumes approximately 1.1 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 120/240 volts, 52/26 amperes at 80 percent power factor.

NOTE: This power unit was issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

Power Unit PE-95-F has been superseded by Power Unit PU-58/G.

* No more to be procured. None available for issue.

POWER UNIT PE-95-F

ENGINE CHARACTERISTICS

MAKE: Willys-Overland Motors (gasoline)
 MODEL: MB-441
 RATED: 24 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-1/8" STROKE: 4-3/8"
 COMPRESSION RATIO: 6.5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Alloy Steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 15-1/2 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10-1/2 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.1 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 5 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Pierce Model CC-417. Belt drive
 IGNITION: 6-volt battery ignition
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D. W. Onan & Sons
 MODEL: JWC-7507
 TYPE OF GENERATOR: A-c, revolving field

 RATING:
 5 KW 5,000 WATTS
 120/240 VOLTS 52/26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct-connected
 NUMBER & TYPE OF BEARINGS: 1 ball No. 7306

 INSULATION: Class A

COMPLETE UNIT

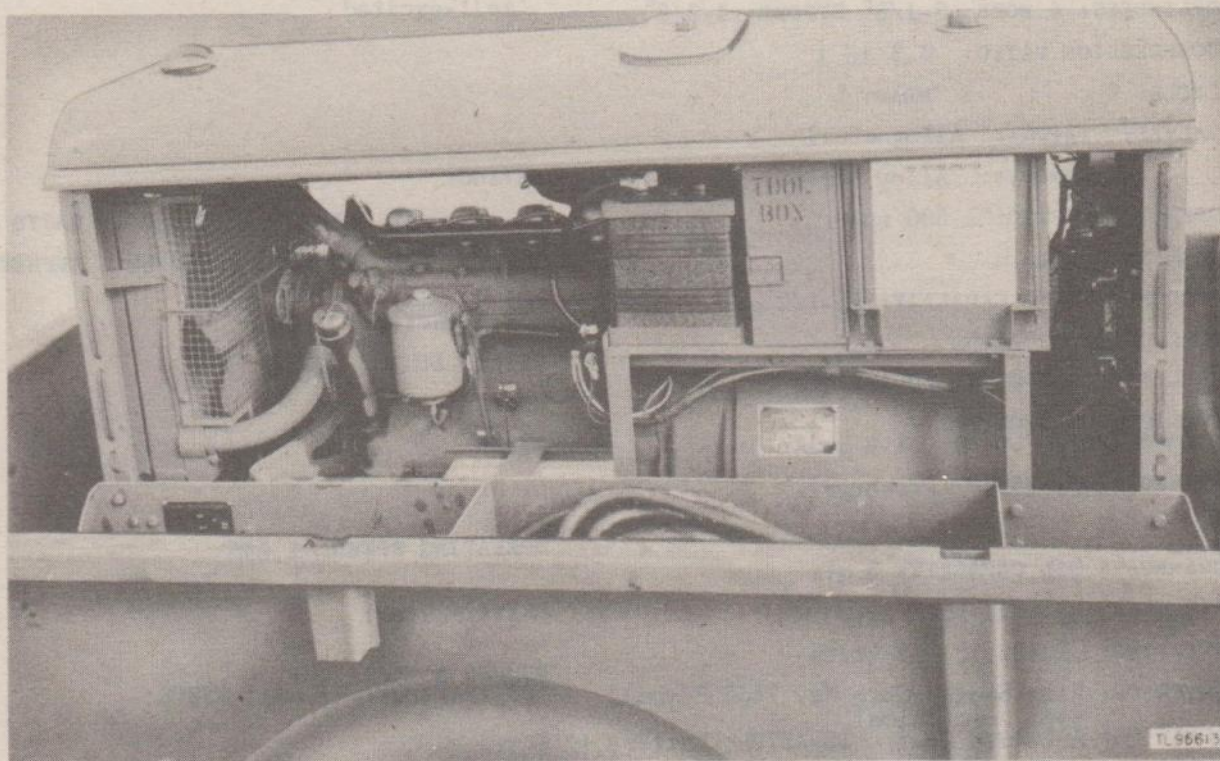
LENGTH: 72-1/2" WIDTH: 28-1/2" HEIGHT: 38-1/2"
 WEIGHT: (NET), 1545 lb WEIGHT: (CRATED), 1765 lb

<p>INSTRUCTIONAL LITERATURE TM 11-904, REVISED (when published) Instruction Book, Stock No. 6D7800B14F</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Plant Engineering Agency</p>
	<p>STOCK NO. 3H4595F</p>

STATUS: Standard

POWER UNIT

DATE APPROVED: 30 Apr 44

PE-95-G-H**POWER UNIT PE-95-G, -H**

Power Unit PE-95-G, -H is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving-field, self-exciting type.

The engine is rated 35 horsepower at 1,800 revolutions per minute and consumes approximately 1.8 gallons of fuel per hour at rated load.

The generator is rated at 10 kilowatts, 60 cycles, single phase, 120/240 volts, and 104/52 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-292, SCR-299, SCR-399, SCR-499, SCR-696, SCR-698, AN/TRC-5, AN/TRC-6, AN/FRC-2; Radio Direction Finder Central TC-8; Radio Intercept Central TC-9; Wire Repair Station AN/MTM-1, AN/MTM-2, and AN/MTM-3; Radio Control Central AN/TRQ-1.

POWER UNIT PE-95-G, -H

ENGINE CHARACTERISTICS

MAKE: Willys Overland Motors (gasoline)
 MODEL: JP 441
 RATED: 35 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 3-1/8" STROKE: 4-3/8"
 COMPRESSION RATIO: 6.5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Alloy steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 15-1/2 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10-1/2 qts
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.8 gals
 LUBRICATION SYSTEM: Pressure

CRANKCASE OIL CAPACITY: 5 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: King-Seeley Corp No. 7433 Flyball
 type mechanical
 IGNITION: Autolite Coil 1G-4070L, battery 12 volts
 NOISE SUPPRESSION: Supressed 500 kc 40 mc

GENERATOR CHARACTERISTICS

MAKE: D. W. Onans & Sons
 MODEL: OS-10
 TYPE OF GENERATOR: A-c, revolving-field, self-excited

RATING:
 10 KW 10,000 WATTS
 120/240 VOLTS 104/52 AMPERES

POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3
 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1 ball #7306
 INSULATION: Class A

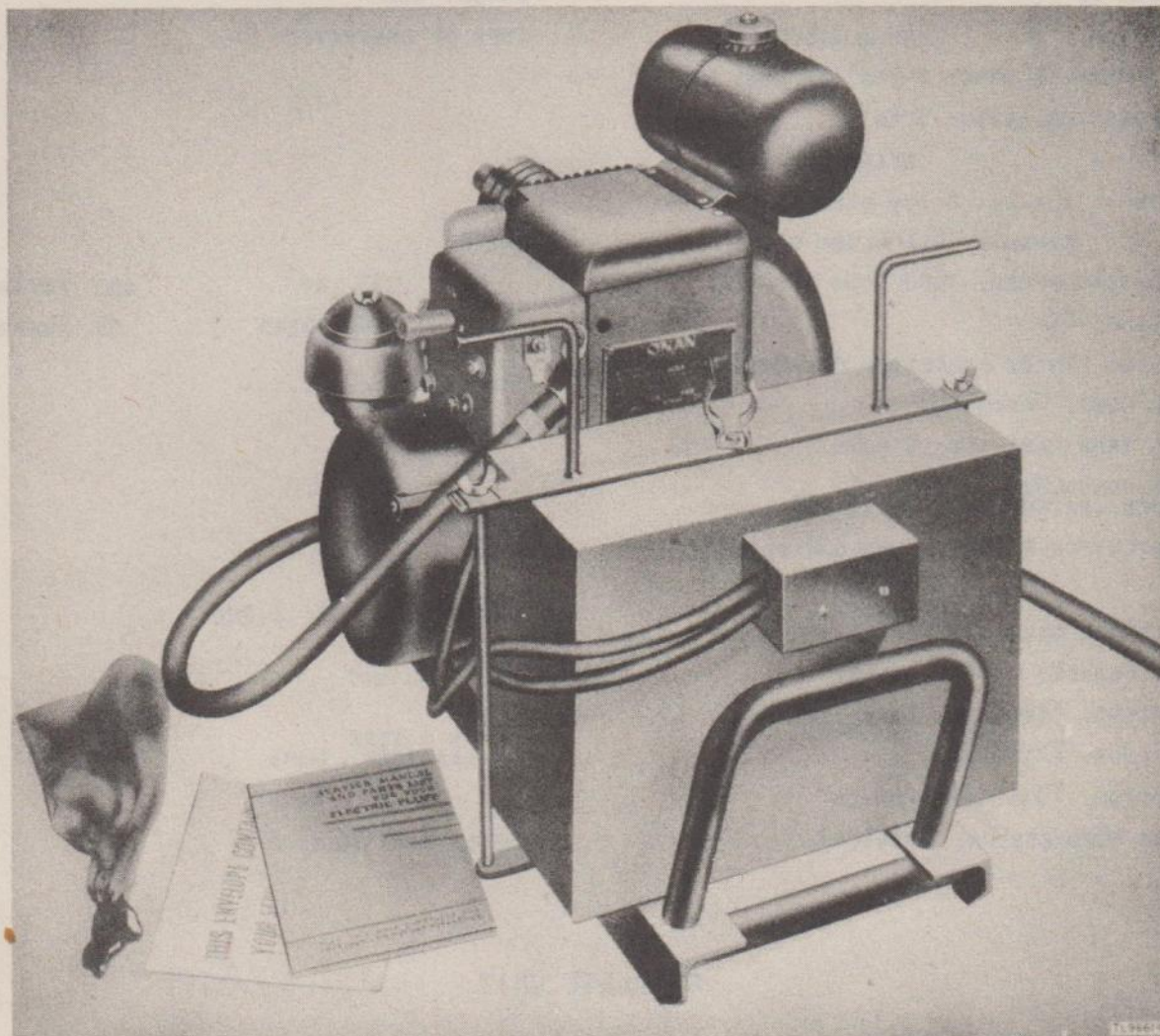
COMPLETE UNIT

LENGTH: 67-1/2" WIDTH: 27-1/4" HEIGHT: 38-1/2"
 WEIGHT: (NET) 1,556 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-904G and TM 11-904H	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4595-G and -H

STATUS: Standard

POWER UNIT

PE-96-A**POWER UNIT PE-96-A**

Power Unit PE-96-A is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, electric-starting, gasoline engine, directly connected to a d-c generator of the revolving-field type, with inherent excitation.

The engine is rated 1 horsepower at 1,800 revolutions per minute and consumes approximately 0.12 gallon of fuel per hour at rated load.

The generator is rated at 400 watts, 14 volts, 28 amperes direct current.

The principal application of this power unit is the furnishing of current for the operation of Signal Corps Radio Set SCR-586 and Target Control Transmitting Equipment RC-56.

POWER UNIT PE-96-A

ENGINE CHARACTERISTICS

MAKE: D. W. Onans & Sons (gasoline)
 MODEL: 48 S
 RATED: 1 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: 5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 2 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.12 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball
 IGNITION: Flywheel magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D. W. Onans & Sons
 MODEL: 48S
 TYPE OF GENERATOR: D-c

 RATING:
 0.40 KW 400 WATTS
 14 VOLTS 28 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: None
 INSULATION: Class A

COMPLETE UNIT

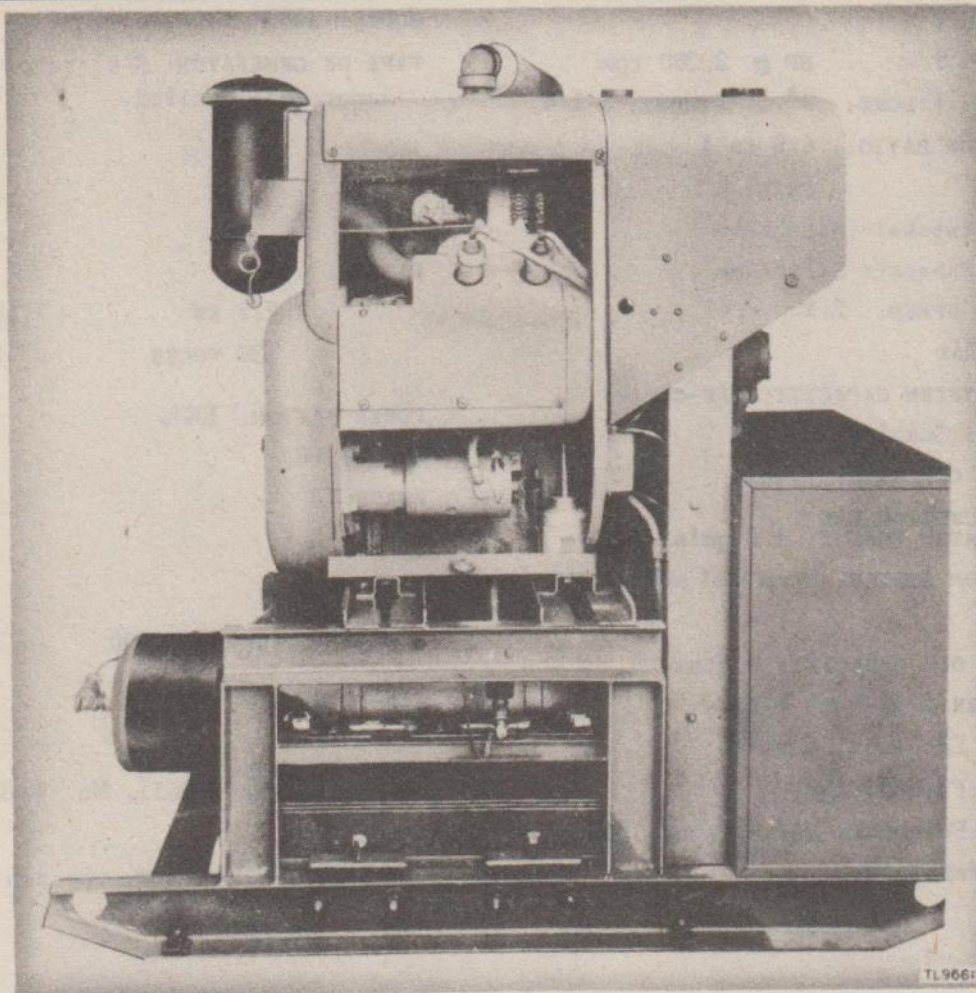
LENGTH: 15-1/2" WIDTH: 9-1/2" HEIGHT: 14-1/2"
 WEIGHT: (NET) 90 lb WEIGHT: (CRATED) 119 lb

INSTRUCTIONAL LITERATURE	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4596-A

STATUS: Limited standard

POWER UNIT

DATE APPROVED: 19 Jul 44

PE-99-A**POWER UNIT PE-99-A**

Power Unit PE-99-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, air-cooled, V-type electric-starting gasoline engine, with a belt-driven a-c generator of the revolving field, separately excited type.

The engine is rated 20.5 horsepower at 2,200 revolutions per minute, and consumes approximately 1.8 gallons of fuel per hour at rated load.

The generator is rated at 7.5 kilowatts, 60 cycles, 3-phase, 120 volts, 36 amperes at 100 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps v-h-f equipment; Radio Control Net Systems SCS-2 and SCS-3; Radio Sets SCR-632, SCR-633, SCR-634, SCR-643, and SCR-645; and Control Set SCR-642.

POWER UNIT PE-99-A

ENGINE CHARACTERISTICS

MAKE: Wisconsin Motors Corp (gasoline)
 MODEL: VE-4
 RATED: 20.5 HP @ 2,200 rpm
 CYLINDERS: 4 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 2,200 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 7 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.8 gals
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 6 volts
 GOVERNOR: Flyball type
 IGNITION: Fairbanks Morse Type, JE4B Magneto
 NOISE SUPPRESSION: -----

GENERATOR CHARACTERISTICS

MAKE: American Custom Built Motors
 MODEL: 1280
 TYPE OF GENERATOR: A-c, revolving field separately excited.

 RATING:
 7.5 KW 7,500 WATTS
 120 VOLTS 36 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,800

 DRIVE: Belt

 NUMBER & TYPE OF BEARINGS: 2 Ball, No. 6210Z & 6308Z

 INSULATION: Form-var, one dip

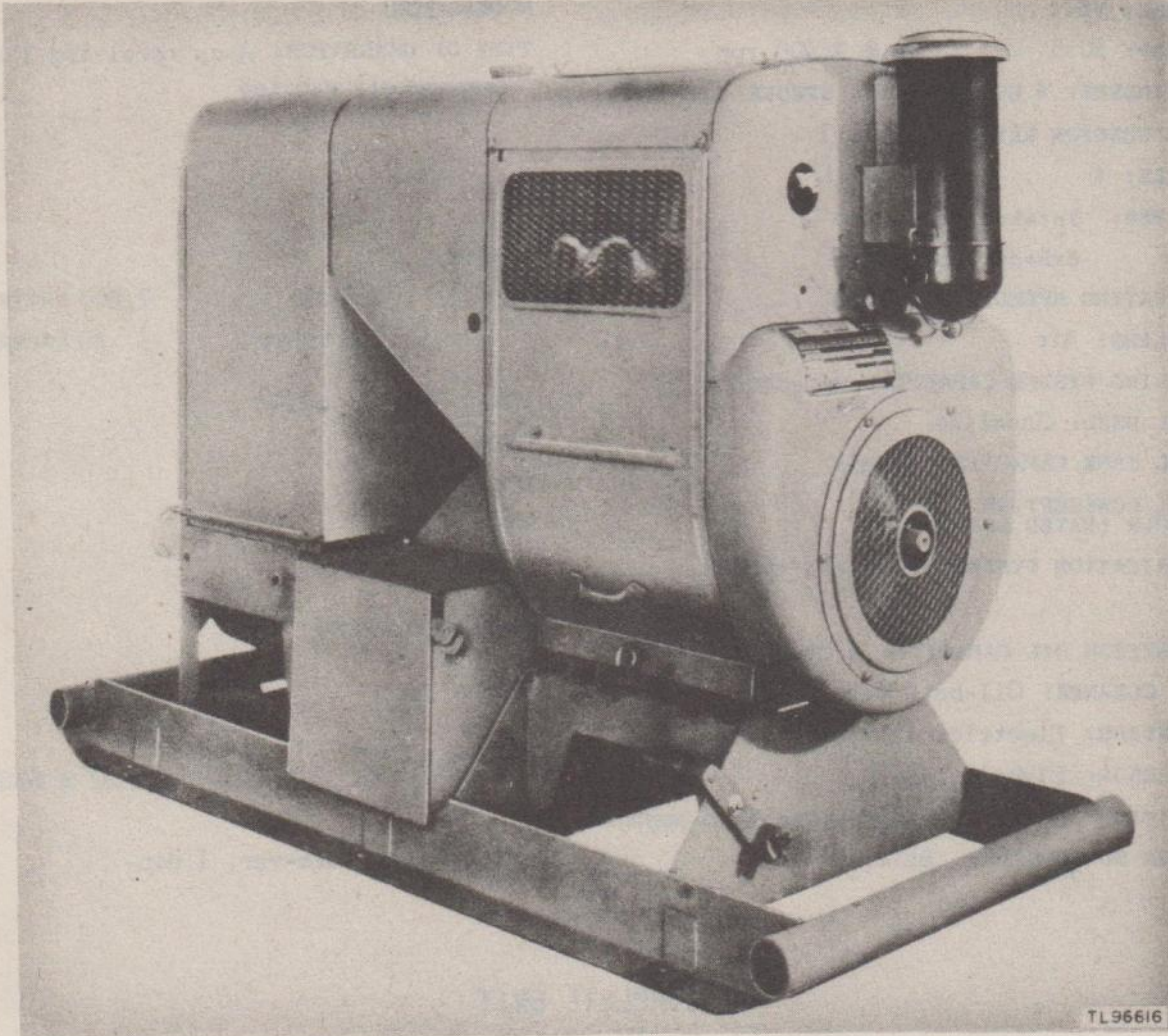
COMPLETE UNIT

LENGTH: 50" WIDTH: 28" HEIGHT: 55"
 WEIGHT: (NET) 1,150 lb WEIGHT: (CRATED)

<p>INSTRUCTIONAL LITERATURE Instruction Book</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4599A.1</p>

STATUS: Limited standard

POWER UNIT

DATE APPROVED: 19 Jul 44**PE-99-B-C**

TL96616

POWER UNIT PE-99-B, -C

Power Unit PE-99-B-C is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, air-cooled, V-type electric-starting gasoline engine, with a belt-driven a-c generator of the revolving field, separately excited type.

The engine is rated 20.5 horsepower at 2,200 revolutions per minute, and consumes approximately 1.8 gallons of fuel per hour at rated load.

The generator is rated at 7.5 kilowatts, 60 cycles, 3-phase, 120 volts, 36 amperes at 100 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps v-h-f equipment; Radio Control Net Systems SCS-2 and SCS-3; Radio Sets SCR-632, SCR-633, SCR-634, SCR-643, SCR-644, and SCR-645; and Control Set SCR-642.

POWER UNIT PE-99-B, -C

ENGINE CHARACTERISTICS

MAKE: Wisconsin Motors Corp (gasoline)
 MODEL: VE-4
 RATED: 20.5 HP @ 2,200 rpm
 CYLINDERS: 4 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 2,200 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 7 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.8
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball type
 IGNITION: Fairbanks Morse type JE4B magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: American Custom Built Motors
 MODEL: 1280
 TYPE OF GENERATOR: A-c, revolving field, separately excited

 RATING:
 7.5 KW 7,500 WATTS
 120 VOLTS 36 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,800
 DRIVE: Belt
 NUMBER & TYPE OF BEARINGS: 2-ball, No. 6210Z & 6308Z
 INSULATION: Form-var, 1 dip

COMPLETE UNIT

LENGTH: 60" WIDTH: 28" HEIGHT: 41"
 WEIGHT (NET) POWER UNIT PE-99-B: 1,140 lb WEIGHT: (CRATED)
 WEIGHT (NET) POWER UNIT PE-99-C: 1,080 lb

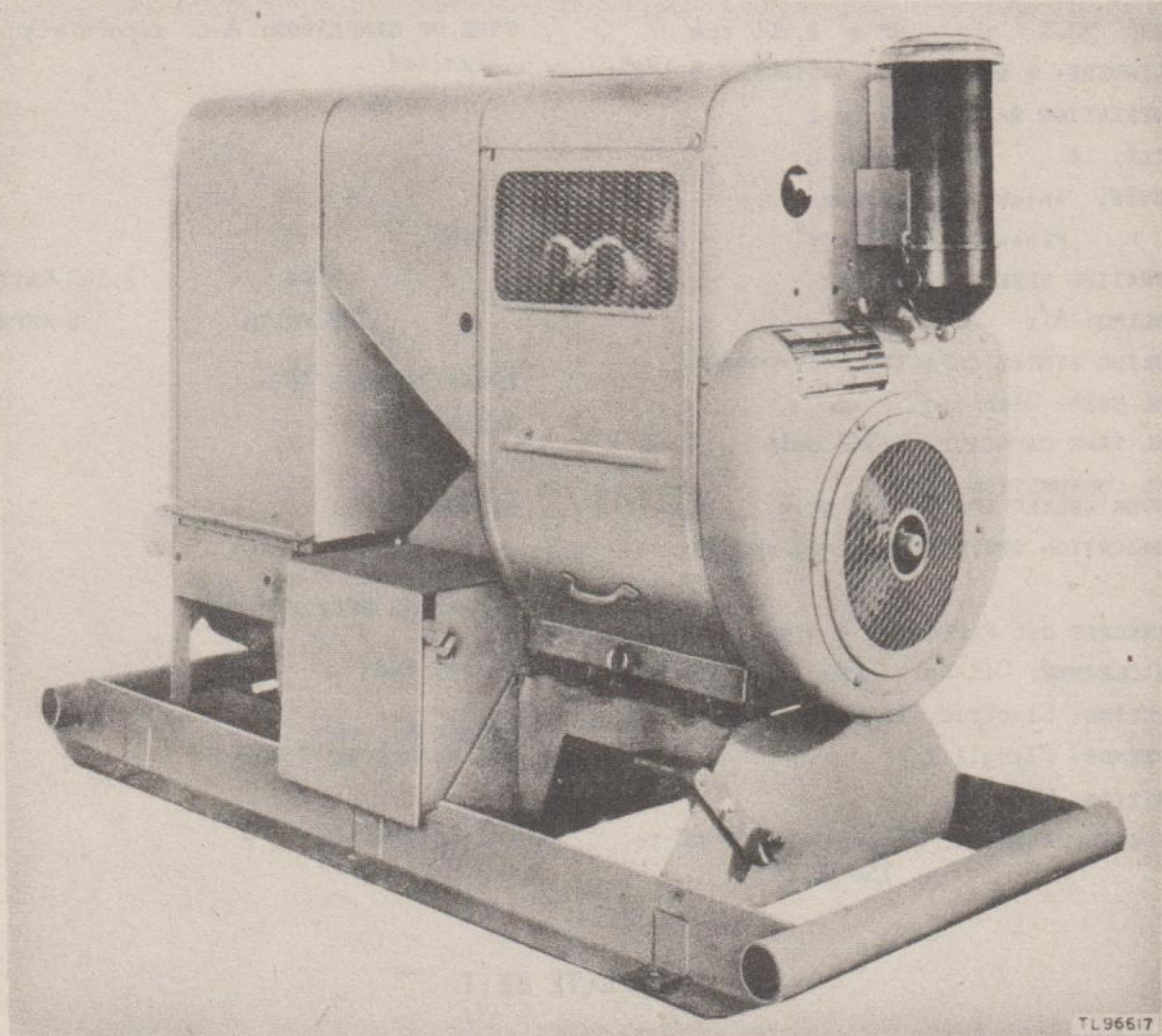
<p>INSTRUCTIONAL LITERATURE TM 11-923B for PE-99-B TM 11-923C for PE-99-C</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4599B and 3H4599C</p>

STATUS: Limited standard

POWER UNIT

DATE APPROVED: 19 Jul 44

PE-99-D-E



POWER UNIT PE-99-D, -E

Power Unit PE-99-D, -E is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, air-cooled, V-type electric-starting, gasoline engine with belt-driven a-c generator of separately excited type.

The engine is rated 20.5 horsepower at 2,200 revolutions per minute and consumes approximately 1.8 gallons of fuel per hour at rated load.

The generator is rated at 7.5 kilowatts, 60 cycles, 3-phase, 120 volts, 36 amperes at 100 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps v-h-f equipment; Radio Control Net Systems SCS-2 and SCS-3; Radio Sets SCR-632, SCR-633, SCR-634, SCR-643, SCR-644, and SCR-645; and Control Set SCR-642.

POWER UNIT PE-99-D, -E

ENGINE CHARACTERISTICS

MAKE: Wisconsin Motor Corp (gasoline)
 MODEL: V-E-4
 RATED: 20.5 HP @ 2,200 rpm
 CYLINDERS: 4 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 2,200 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 9-3/4 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.8 gals
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 4 qts.
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball type
 IGNITION: Magneto
 NOISE SUPPRESSION: Suppressed 550 KC to 150 MC

GENERATOR CHARACTERISTICS

MAKE: Continental Electric Co
 MODEL: DS-284-exciter F O -5604
 TYPE OF GENERATOR: A-c, separately excited

 RATING:
 7.5 KW 7,500 WATTS
 120 VOLTS 36 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,800
 DRIVE: Belt
 NUMBER & TYPE OF BEARINGS: 2 ball
 INSULATION: Class A

COMPLETE UNIT

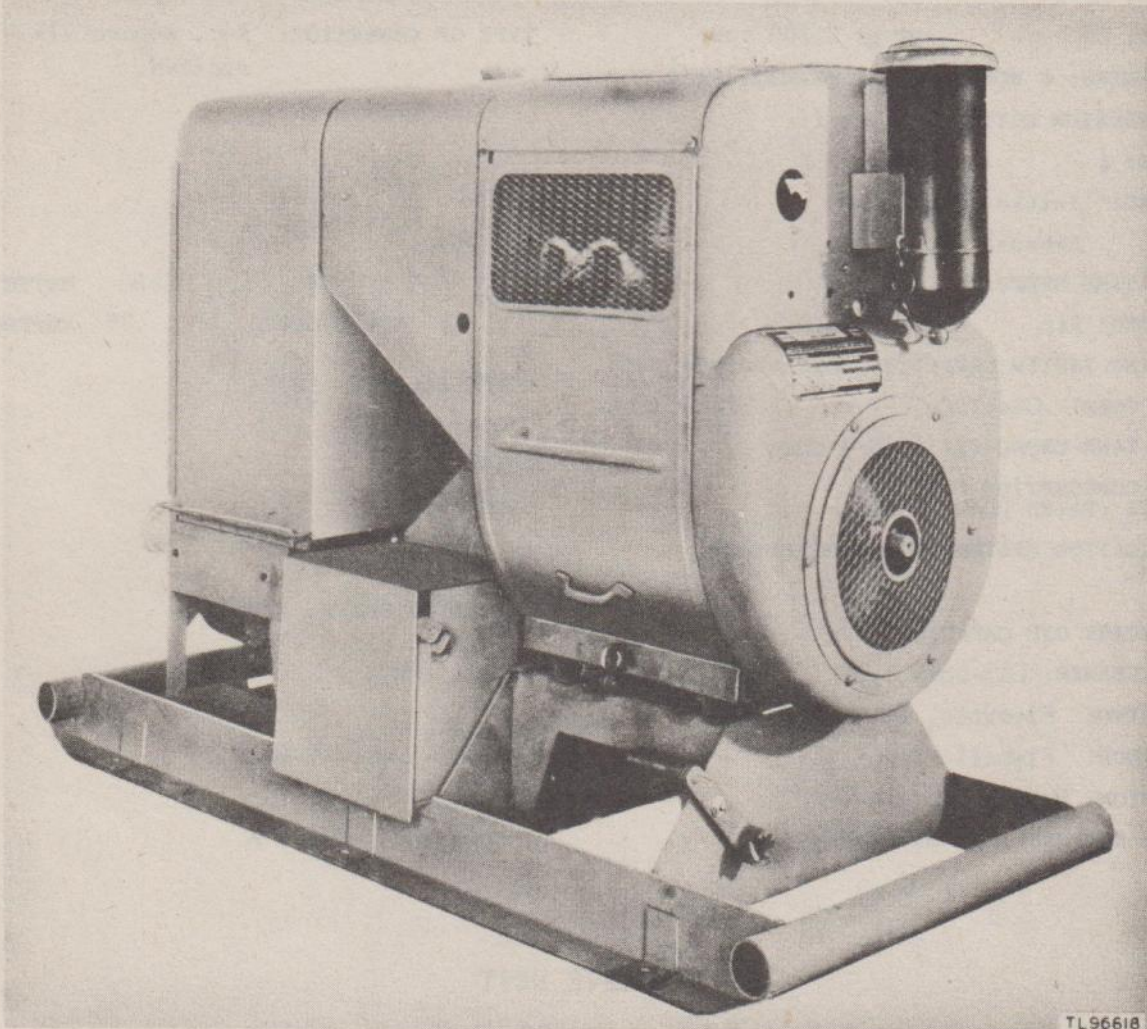
LENGTH: 60" WIDTH: 28" HEIGHT: 42"
 WEIGHT (NET) POWER UNIT PE-99-D: 1,140 lb WEIGHT: (CRATED)
 WEIGHT (NET) POWER UNIT PE-99-E: 1,085 lb

<p>INSTRUCTIONAL LITERATURE Instruction book for PE-99-D TM-923E for PE-99-E</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4599D and 3H4599E</p>

R & V - HKGS
 GEREgistREERD
 POWER UNIT

STATUS: Limited standard

PE-99-F



TL96618

POWER UNIT PE-99-F

Power Unit PE-99-F is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, air-cooled, V-type electric-starting gasoline engine, with a belt-driven, a-c generator of the separately excited type.

The engine is rated 20.5 horsepower, at 2,200 revolutions per minute, and consumes approximately 1.8 gallons of fuel per hour at rated load.

The generator is rated at 7.5 kilowatts, 60 cycles, 3-phase, 120 volts, 36 amperes at 100 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps v-h-f equipment; Radio Control Net Systems SCS-2 and SCS-3; Radio Sets SCR-632, SCR-633, SCR-634, SCR-643, SCR-644, and SCR-645; and Control Set SCR-642.

POWER UNIT PE-99-F

ENGINE CHARACTERISTICS

MAKE: Wisconsin Motor Corp (gasoline)
 MODEL: VE-4
 RATED: 20.5 HP @ 2,200 rpm
 CYLINDERS: 4 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 2,200 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 9-3/4 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.8
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball type
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL: 5A B254A21
 TYPE OF GENERATOR: A-c, separately excited.

 RATING:
 7.5 KW 7,500 WATTS
 120 VOLTS 36 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,800
 DRIVE: Belt
 NUMBER & TYPE OF BEARINGS: 2-ball
 INSULATION: Class A

COMPLETE UNIT

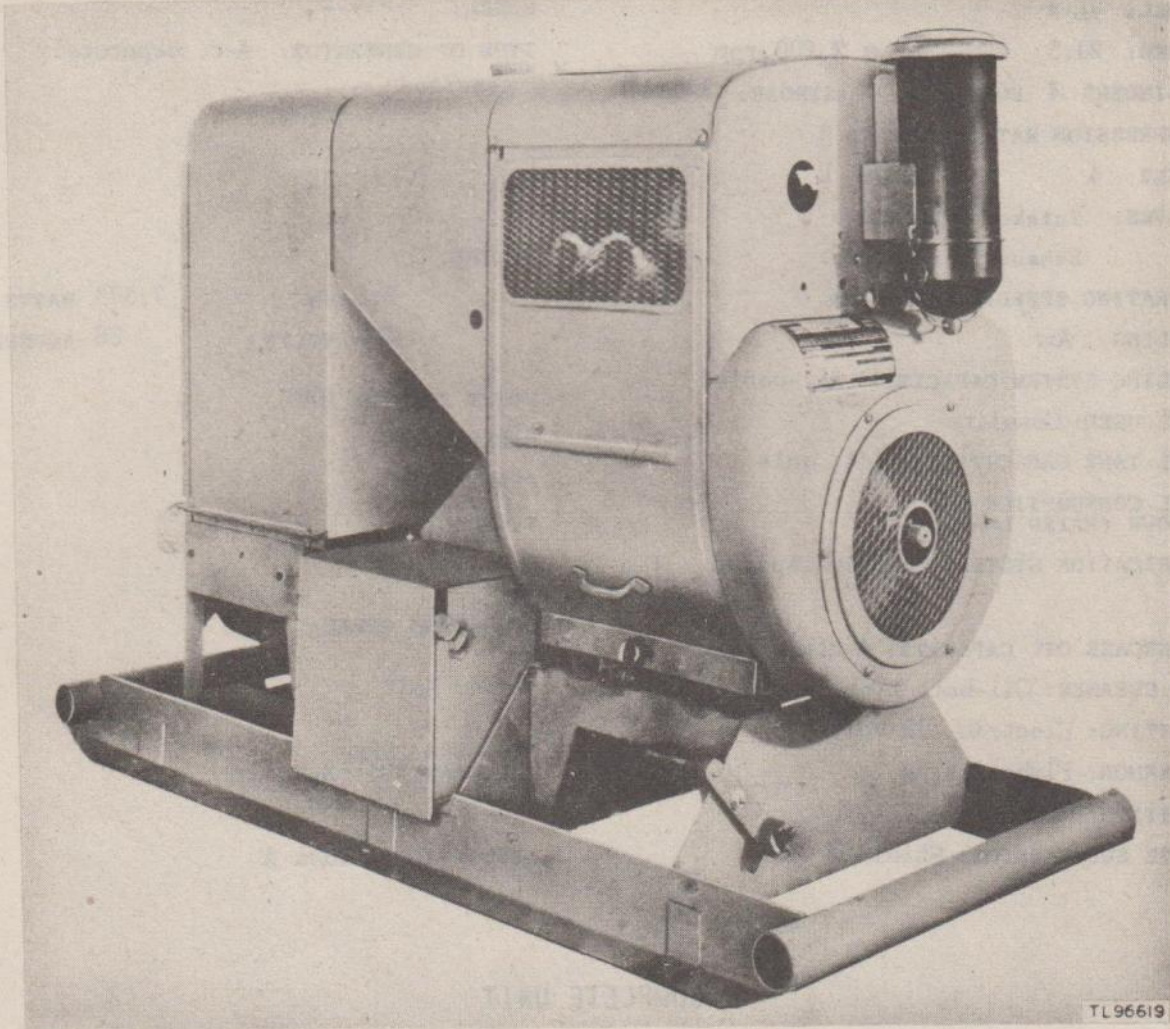
LENGTH: 59" WIDTH: 28" HEIGHT: 42"
 WEIGHT: (NET) 1,015 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-923F	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4599F

STATUS: Limited standard

POWER UNIT

PE-99-G



POWER UNIT PE-99-G

Power Unit PE-99-G is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, air-cooled, V-type Electric-starting gasoline engine with a belt-driven a-c generator, separately excited.

The engine is rated 20.5 horsepower at 2,200 revolutions per minute and consumes approximately 1.8 gallons of fuel per hour at rated load.

The generator is rated at 7.5 kilowatts, 60 cycles, 3-phase, 120 volts, 36 amperes at 100 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps v-h-f equipment; Radio Control Net Systems SCS-2 and SCS-3; Radio Sets SCR-632, SCR-633, SCR-634, SCR-643, SCR-644, and SCR-645; and Control Set SCR-642.

POWER UNIT PE-99-G

ENGINE CHARACTERISTICS

MAKE: Wisconsin Motor Corp (gasoline)
 MODEL: VE-4
 RATED: 20.5 HP @ 2,200 rpm
 CYLINDERS: 4 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: 4.6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 2,200 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 9-3/4 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.8
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball type
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: F & S Electric Co
 MODEL: -----
 TYPE OF GENERATOR: A-c, separately excited

 RATING:
 7.5 KW 7,500 WATTS
 120 VOLTS 36 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,800
 DRIVE: Belt
 NUMBER & TYPE OF BEARINGS: 2-ball

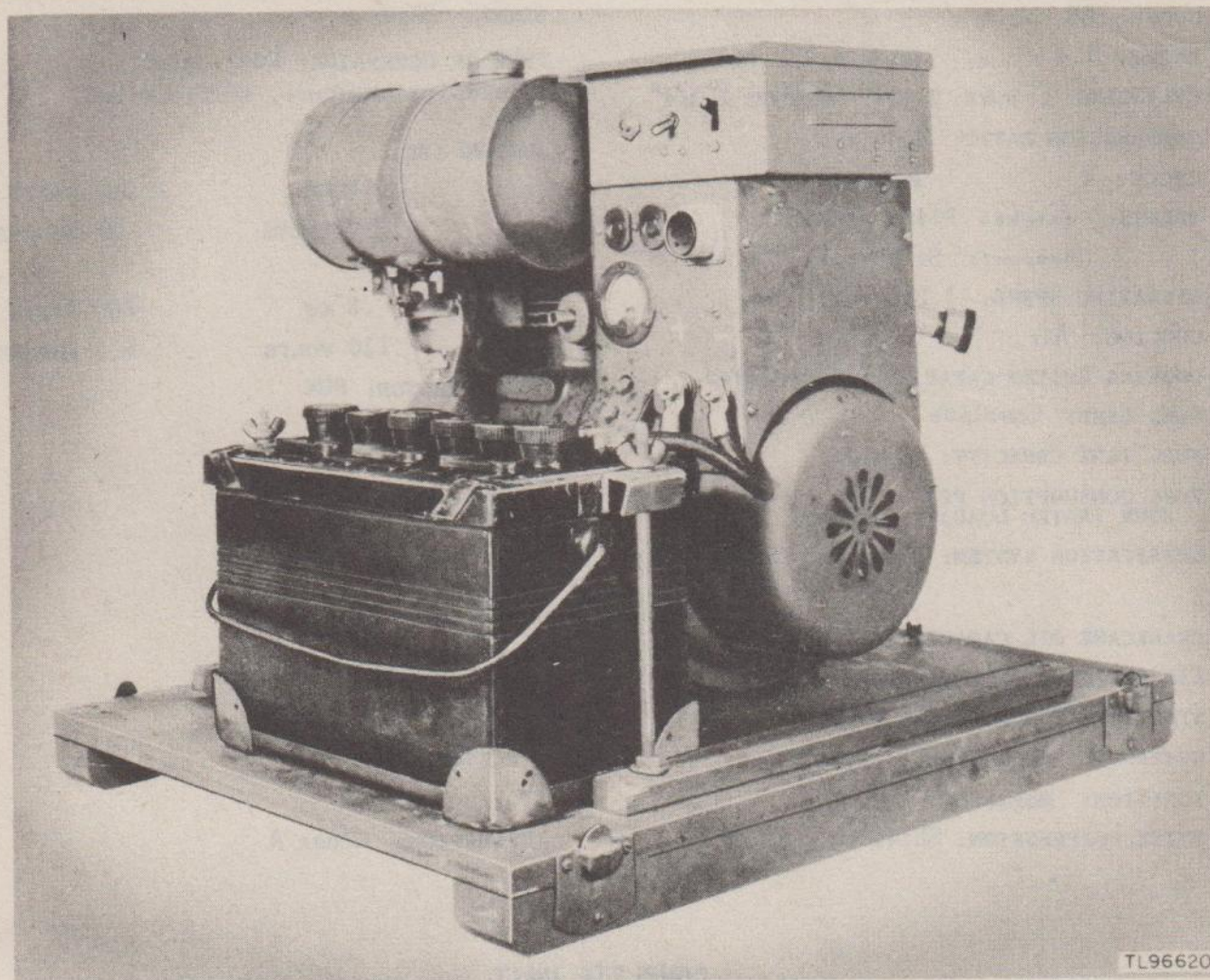
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 60" WIDTH: 28" HEIGHT: 41"
 WEIGHT: (NET) 1,080 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-923G	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4599G

POWER UNIT

PE-108-A-B-C

TL96620

POWER UNIT PE-108-A, -B, -C

Power Unit PE-108-A, -B, -C is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, electric-starting, gasoline engine directly connected to a dual-wound generator of the rotating armature type, with integral self-excitation.

The engine is rated 1.4 horsepower at 1,800 revolutions per minute, and consumes approximately 0.25 gallons of fuel per hour at rated load.

The generator has two windings; 600 watts, 60 cycles, single phase, 110 volts, 6.5 amperes at 80 percent power factor, and 300 watts at 12.5 volts, 24 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set SCR-543-A.

POWER UNIT PE-108-A, -B, -C

ENGINE CHARACTERISTICS

MAKE: Wisconsin Motor Corp (gasoline)
 MODEL: AA
 RATED: 1.4 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-3/4"
 COMPRESSION RATIO: 4.4 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Mechanical, flyball
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen-E Motor
 MODEL: BA-6
 TYPE OF GENERATOR: Dual-wound, rotating armature, self-excited
 RATING (DC):
 .3 KW 300 WATTS
 12.5 VOLTS 24 AMPERES
 RATING (AC):
 .6 KW 600 WATTS
 110 VOLTS 6.5 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS:

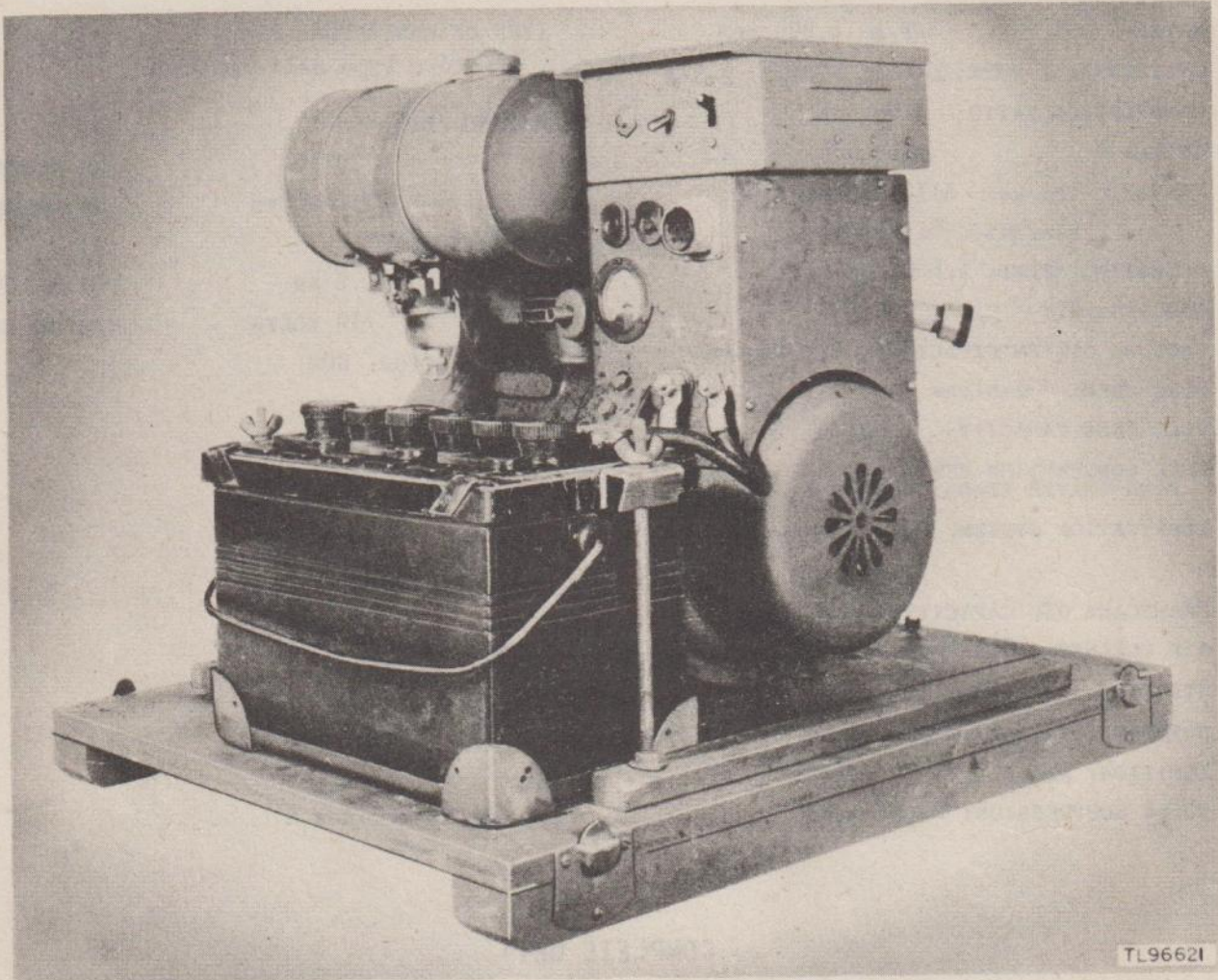
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 24" WIDTH: 28" HEIGHT: 23-3/4"
 WEIGHT: (NET) 350 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-927	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600108A, B&C

POWER UNIT

PE-108-E**POWER UNIT PE-108-E**

Power Unit PE-108-E is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, electric-starting, gasoline engine, directly connected to an a-c, d-c generator of the rotating-armature, dual-winding type.

The engine is rated 2.3 horsepower at 1,800 revolutions per minute, and consumes approximately 0.25 gallon of fuel per hour at rated load.

The generator has two windings; 600 watts, 60 cycles, single phase, 110 volts, 6.5 amperes at 80 percent power factor, and 300 watts at 12.5 volts, 24 amperes direct current.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Set SCR-543-A.

POWER UNIT PE-108-E

ENGINE CHARACTERISTICS

MAKE: Wisconsin Motor Corp (gasoline)
 MODEL: AB
 RATED: 2.3 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-1/2 STROKE: 2-3/4
 COMPRESSION RATIO: 4.6
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.25 gal
 LUBRICATION SYSTEM: Pump and splash

CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Suppressed

GENERATOR CHARACTERISTICS

MAKE: Pioneer Gen-E Motor
 MODEL: BA-6
 TYPE OF GENERATOR: A-c - d-c, rotating
 armature type, self-excited.

RATING (DC):
 .3 KW 300 WATTS
 12.5 VOLTS 24 AMPERES

RATING (AC):
 .6 KW 600 WATTS
 110 VOLTS 6.5 AMPERES

POWER FACTOR: 80%

CYCLE: 60
 PHASE: 1
 WIRES: 2

OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE
 OF BEARINGS: None

INSULATION: Class A

COMPLETE UNIT

LENGTH: 24"

WIDTH: 28"

HEIGHT: 23-3/4"

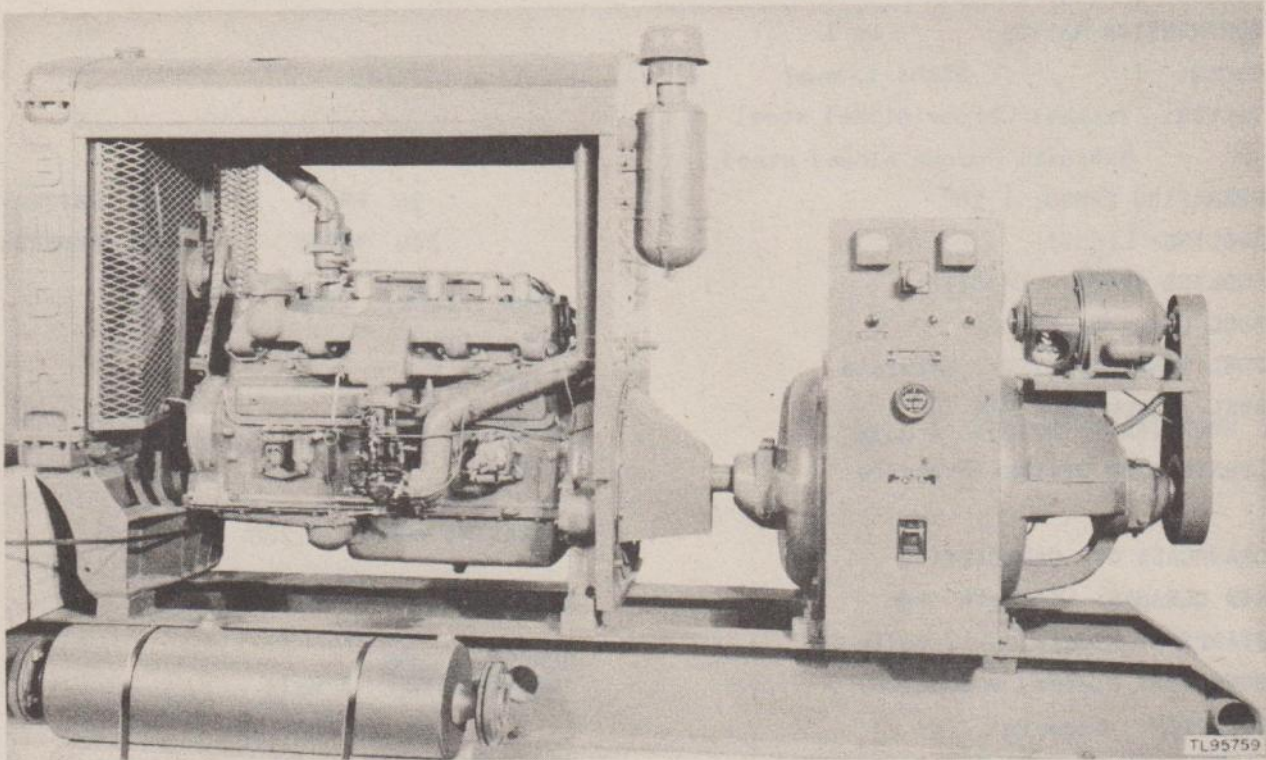
WEIGHT: (NET) 320 lb

WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-927	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-108E

STATUS: SEE BELOW *	POWER UNIT PE-113-B
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FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY.



POWER UNIT PE-113-B

Power Unit PE-113-B is an electric generating set consisting of a 6-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator.

The engine is rated 63.5 horsepower at 1,200 revolutions per minute, and consumes approximately 4 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3-phase, 240 volts, 75 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue. No more to be procured.

POWER UNIT PE-113-B

ENGINE CHARACTERISTICS

MAKE: Buda & Equipment Co (gasoline)
 MODEL: K-428
 RATED: 63.5 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-3/8" STROKE: 4-3/4"
 COMPRESSION RATIO: to 1
 CYCLE: 4 HEAD: L-head
 VALVES: Intake: Chrome nickel steel
 Exhaust: Chrome nickel steel
 OPERATING SPEED: 1,200
 COOLING: Liquid
 COOLING SYSTEM CAPACITY:
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 4 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY:
 AIR CLEANER: Oil-bath type.
 STARTING: Electric, 12 volts
 GOVERNOR: Pierce, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Wooley (rebuilt)
 MODEL: Frame-O MT-336, O MT-536 or 654C
 TYPE OF GENERATOR: A-c

 RATING:
 25 KW 25,000 WATTS
 240 VOLTS 75 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200
 DRIVE: Direct-connected

 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: WIDTH: HEIGHT:
 WEIGHT: (NET) WEIGHT: (CRATED)

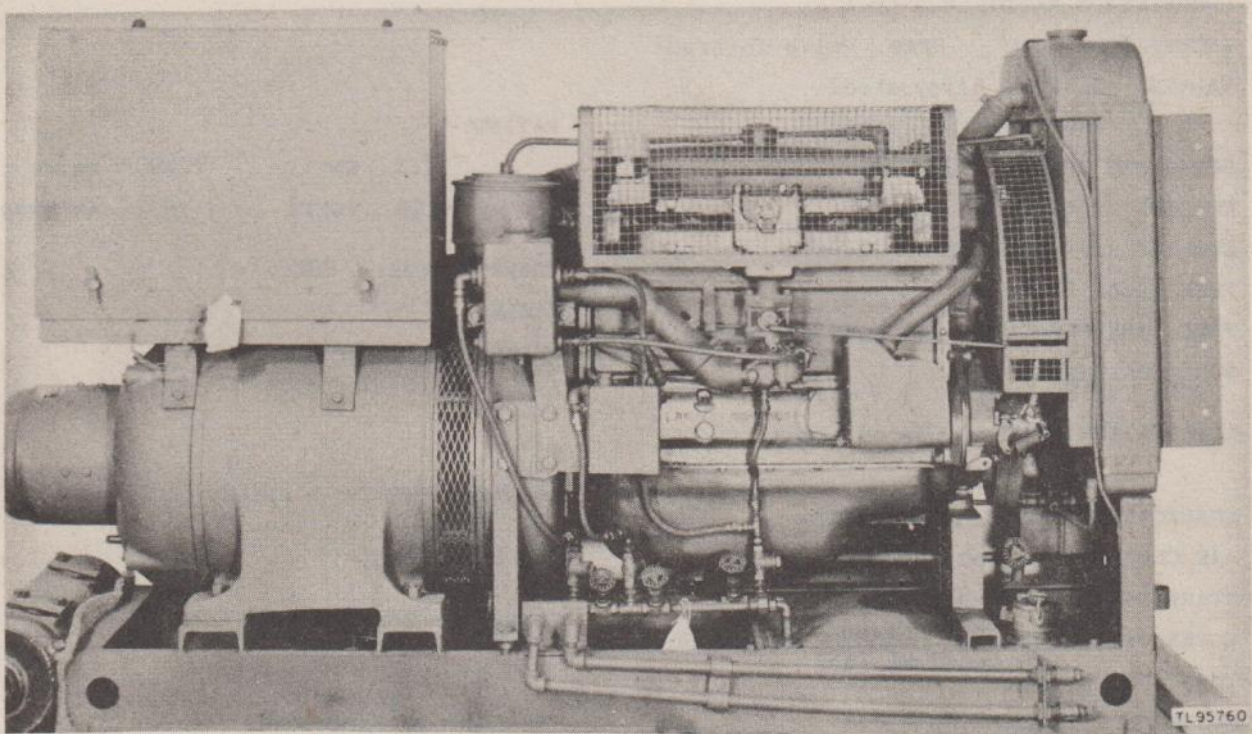
<p>INSTRUCTIONAL LITERATURE Instruction Book, Stock No. 3H4600-113B/B1 TM 11-917 (when published)</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Plant Engineering Agency</p>
	<p>STOCK NO. 3H4600113B</p>

STATUS: SEE BELOW *

POWER UNIT

PE-127-B

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-127-B**

Power Unit PE-127-B is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric starting gasoline engine, directly connected to an a-c generator.

The engine is rated 34 horsepower at 1,200 revolutions per minute, and consumes approximately 1.9 gallons of fuel per hour at rated load.

The generator is rated at 7.5 kilowatts, 60 cycles, single phase, 120 volts, 78.1 amperes at 80 percent power factor.

NOTE: This power unit was issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* No more to be procured. None available for issue.

POWER UNIT PE-127-B

ENGINE CHARACTERISTICS

MAKE: Continental (gasoline)
 MODEL: OS.202
 RATED: 34 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 3-1/8" STROKE: 4-3/8"
 COMPRESSION RATIO: 6.5 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 24 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 7.2 gals or remote supply
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.9 gals
 LUBRICATION SYSTEM: Forced feed

 CRANKCASE OIL CAPACITY: 6 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric 6 volts
 GOVERNOR: Pierce No. D-10010 (Duplex No.)
 Or, Model MA-1452
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Century Electric Co
 MODEL: APC-365Y
 TYPE OF GENERATOR: A-c

 RATING:
 7.5 KW 7,500 WATTS
 120 VOLTS 78.1 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

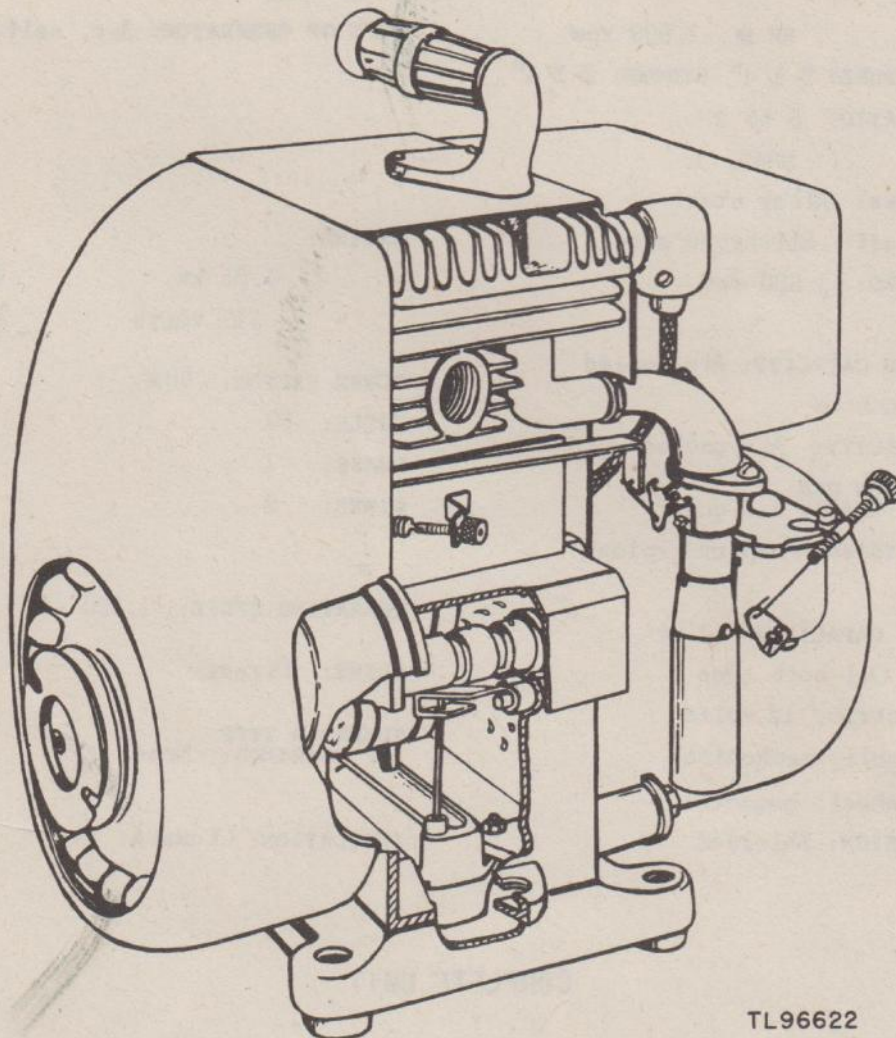
 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 76-1/4" WIDTH: 26" HEIGHT: 45"
 WEIGHT: (NET) 2,400 WEIGHT: (CRATED) 2,600 lb

INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4600-127-B/B1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-127B

POWER UNIT

PE-129-A

TL96622

POWER UNIT PE-129-A

Power Unit PE-129-A is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the self-exciting type.

The engine is rated 1 horsepower at 1,800 revolutions per minute, and consumes approximately 0.2 gallon of fuel per hour at rated load.

The generator is rated at 350 watts, 60 cycles, single phase, 110 volts, 4 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Test Equipment I-109, and Signal Corps Radio Set SCR-515.

POWER UNIT PE-129-A

ENGINE CHARACTERISTICS

MAKE: D.W.Onan & Sons (gasoline)
 MODEL: 358-RS
 RATED: 1 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: 5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: Air-cooled
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.2 gal
 LUBRICATION SYSTEM: Pump and splash

CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

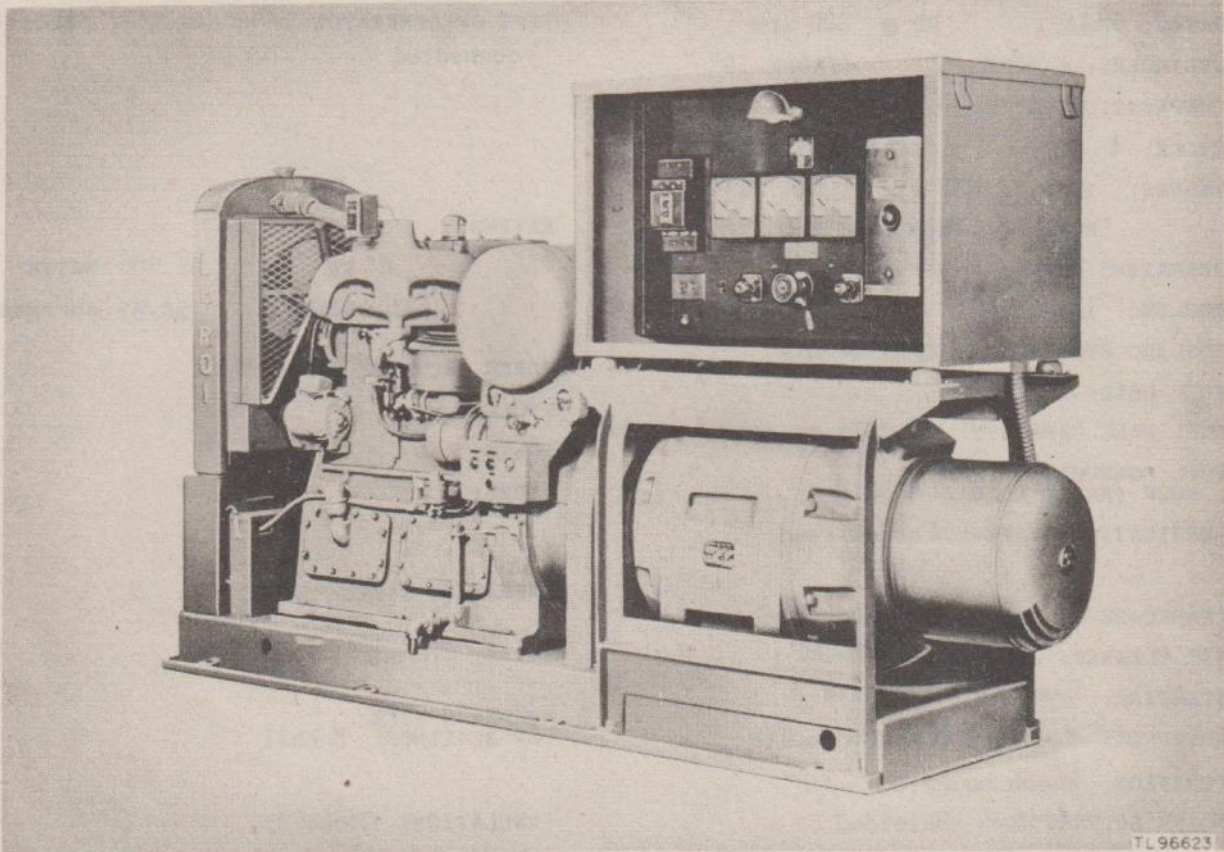
MAKE: D.W.Onan & Sons
 MODEL: 385
 TYPE OF GENERATOR: A-c, self-excited
 RATING:
 0.35 KW 350 WATTS
 110 VOLTS 4 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2
 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: None
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 15-1/2" WIDTH: 9-1/2" HEIGHT: 14-1/2"
 WEIGHT: (NET) 105 lb WEIGHT: (CRATED) 184 lb

INSTRUCTIONAL LITERATURE Instruction Book	SECURITY CLASSIFICATION OF THIS EQUIPMENT: RESTRICTED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-129A

POWER UNIT

PE-137-A

TL96623

POWER UNIT PE-137-A

Power Unit PE-137-A is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator with exciter direct-connected.

The engine is rated 54 horsepower at 900 revolutions per minute, and consumes approximately 4 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 120/208 volts, 150/87 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-527, SCR-615, and SCR-627.

POWER UNIT PE-137-A

ENGINE CHARACTERISTICS

MAKE: LeRoi Co (gasoline)
 MODEL: D471
 RATED: 54 HP @ 900 rpm
 CYLINDERS: 4 BORE: 5" STROKE: 6"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: SAE steel, No. 3140
 Exhaust: Thompson, XCR
 OPERATING SPEED: 900 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 36 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 15 gals or remote supply
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 4 gals
 LUBRICATION SYSTEM: Forced-feed

CRANKCASE OIL CAPACITY: 28 qts
 AIR CLEANER: Air Maze-27U-OBF
 STARTING: Electric, 12 volts
 GOVERNOR: Woodward SGX, Hydraulic
 IGNITION: Bosch magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL: 12G-130
 TYPE OF GENERATOR: A-c, exciter direct-connected

RATING:
 25 KW 25.000 WATTS
 120/208 VOLTS 150/87 AMPERES

POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

OPERATING SPEED: 900
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 115-1/2" WIDTH: 32" HEIGHT: 63-1/4"
 WEIGHT: (NET) 4,665 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-921	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-137A

STATUS: Standard

POWER UNIT

PE-141-A**NO PHOTOGRAPH OR DRAWING AVAILABLE****POWER UNIT PE-141-A**

Power Unit PE-141-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving field, self-exciting type.

The engine is rated 13.5 horsepower at 1,800 revolutions per minute, and consumes approximately 0.7 gallon of fuel per hour at rated load.

The generator is rated at 3 kilowatts, 60 cycles, single phase, 115 volts, 33 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-591, AN/CRN-2, and AN/CRN-5; and Instrument Landing Equipment SCR-241.

POWER UNIT PE-141-A

ENGINE CHARACTERISTICS

MAKE: Waukesha (gasoline)
 MODEL: 1CK
 RATED: 13.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3-1/8"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Nickel steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 8 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 3 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.7 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 3 qts
 AIR CLEANER: Screen
 STARTING: Electric 6 volts
 GOVERNOR: Waukesha - Flyball
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Marble Card Co
 MODEL: GA-SLX-1-10
 TYPE OF GENERATOR: A-c, revolving field, self-excited

 RATING:
 3 KW 3,000 WATTS
 115 VOLTS 33 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 1 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 48-3/4" WIDTH: 20-3/4" HEIGHT: 36-1/4"
 WEIGHT: (NET) 800 lb WEIGHT: (CRATED)

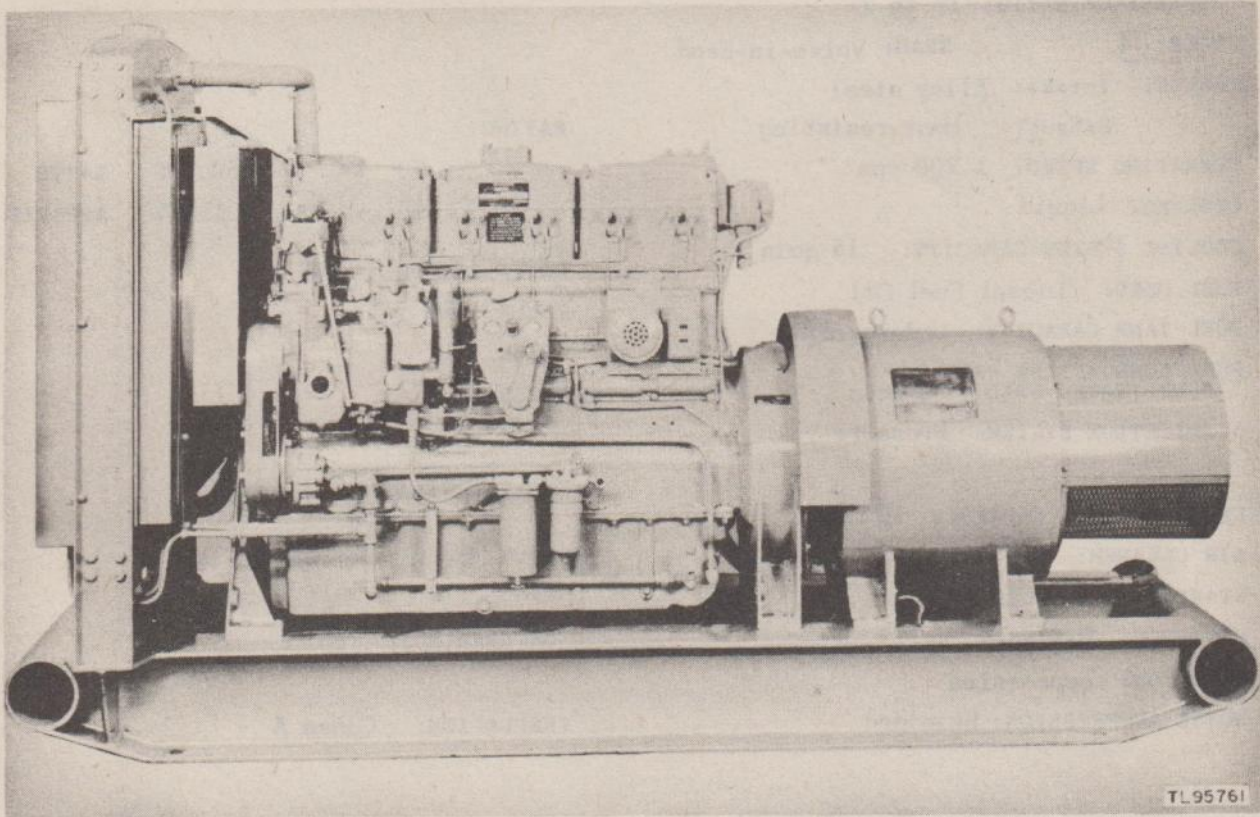
INSTRUCTIONAL LITERATURE Instruction Book	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY:
	STOCK NO. 3H4600-141A

STATUS: SEE BELOW *

POWER UNIT

PE-142-D-E

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



TL 95761

POWER UNIT PE-142-D, E

Power Unit PE-142-D-E is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting Diesel engine, directly connected to an a-c generator, with direct connected exciter.

The engine is rated 90 horsepower at 1,200 revolutions per minute, and consumes approximately 5 gallons of fuel per hour at rated load.

The generator is rated at 50 kilowatts, 60 cycles, 3-phase, 240 volts, 150.5 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

Power Unit PE-142-E is equipped with frequency meter and speed control that will enable this unit to be operated at 50 cps. When operated at 50 cps maximum output is 40KW.

* Available and preferred for issue.

POWER UNIT PE-142-D, -E

ENGINE CHARACTERISTICS

MAKE: Cummins (Diesel)
 MODEL: HI 600
 RATED: 90 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-7/8" STROKE: 6"
 COMPRESSION RATIO: 17 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Heat-resisting
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 15 gals
 FUEL USED: Diesel Fuel Oil
 FUEL TANK CAPACITY: Underground
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 5 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 12 gals
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Woodward
 IGNITION: Compression
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Electric Machinery Co
 MODEL: AC-6
 TYPE OF GENERATOR: A-c with directly
 connected exciter

 RATING:
 50 KW 50,000 WATTS
 240 VOLTS 150.5 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 1,200

 DRIVE: Direct-connected

 NUMBER & TYPE
 OF BEARINGS: 1 Ball

 INSULATION: Class A

COMPLETE UNIT

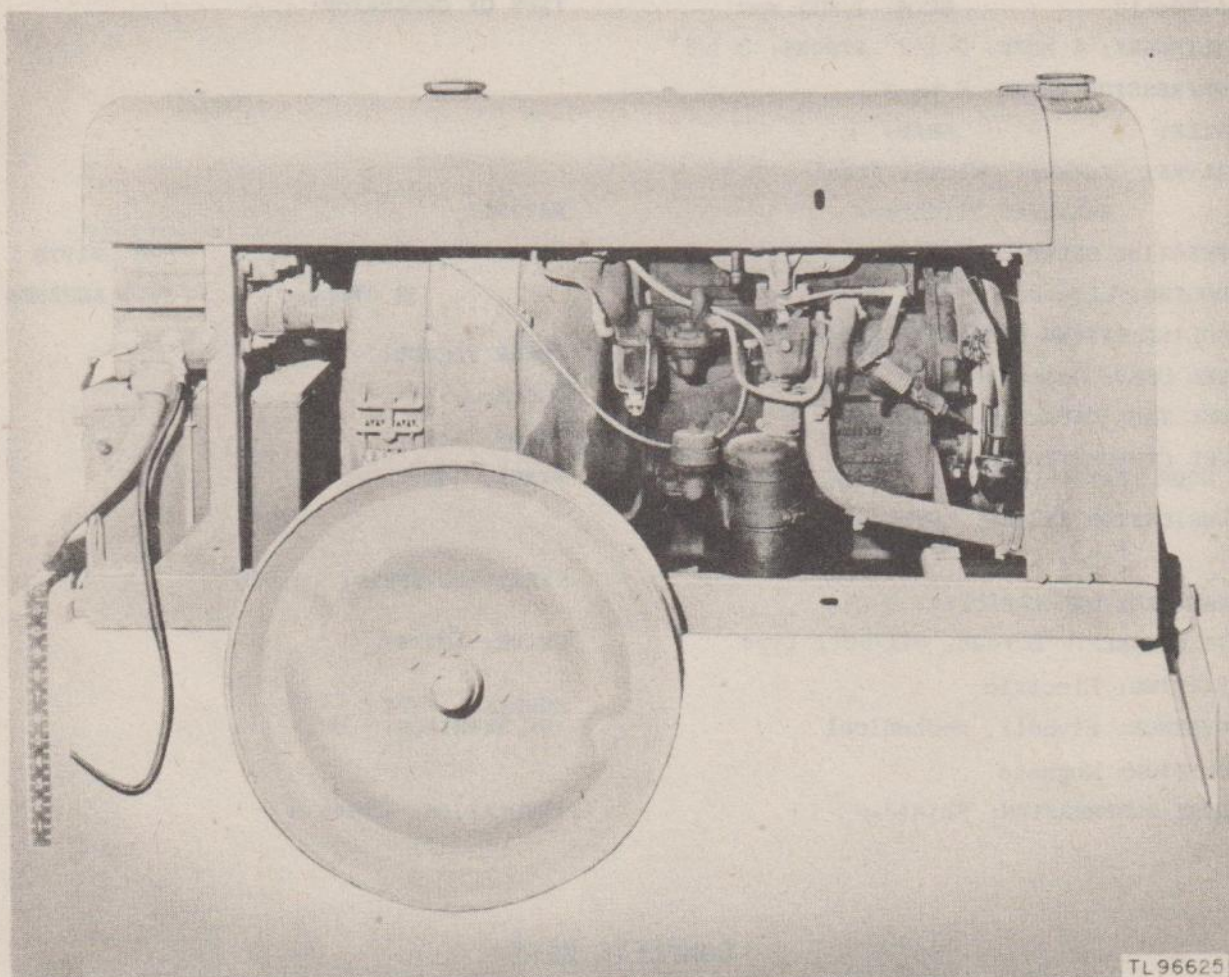
LENGTH: 11' WIDTH: 4' 2" HEIGHT: 7'
 WEIGHT: (NET) 6,300 lb WEIGHT: (CRATED) 7,300 lb

INSTRUCTIONAL LITERATURE TM 11-942D for PE-142-D TM 11-942E for PE 142-E	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-142D-142E

STATUS: Standard

POWER UNIT

DATE APPROVED: 30 Oct 43

PE-143-B-C**POWER UNIT PE-143-B, -C**

Power Unit PE-143-B, -C is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to a d-c generator.

The engine is rated 12 horsepower, at 1,800 revolutions per minute, and consumes approximately 1.2 gallons of fuel per hour at rated load.

The generator is rated at 500 watts, 28.5 volts, 17.5 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Test Equipment IE-13, IE-50 and Radio Set SCR-521.

POWER UNIT PE-143-B, -C

ENGINE CHARACTERISTICS

MAKE: Waukesha Motor Co (gasoline)
 MODEL: ICK
 RATED: 12 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-1/2" STROKE: 3-1/8"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Nickel steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 8 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.2 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Screen, oil-bath type
 STARTING: Electric
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Kurz-Root Co
 MODEL: None
 TYPE OF GENERATOR: D-c

 RATING:
 5 KW 500 WATTS
 28.5VOLTS 17.5 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: Ball

 INSULATION: Class A

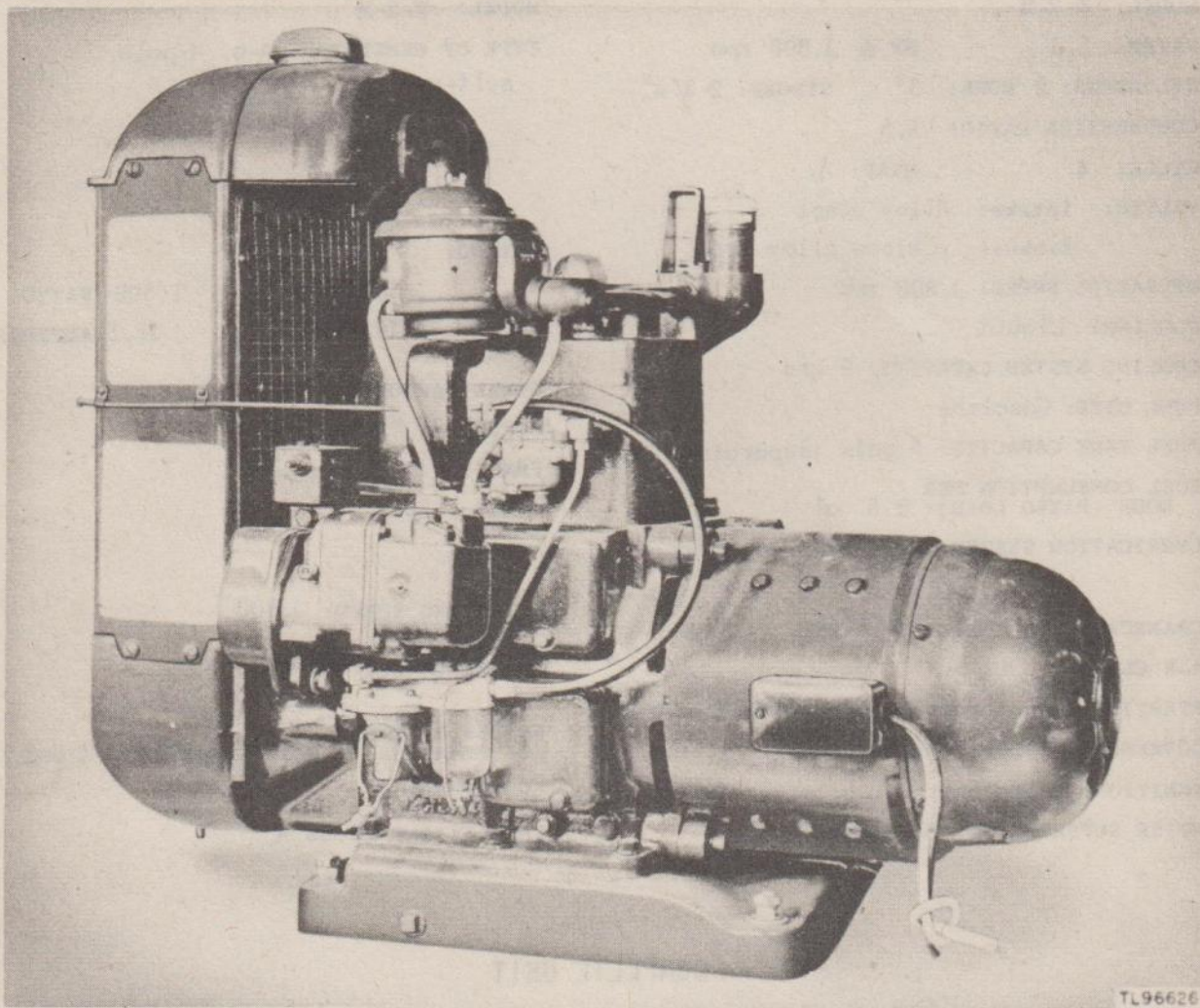
COMPLETE UNIT

LENGTH: 80" WIDTH: 30" HEIGHT: 34"
 WEIGHT: (NET) 542 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE Instruction Book, Stock No. 3H4600-143B/B1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY:
	STOCK NO. 3H4600-143-B-C

STATUS:

POWER UNIT

PE-144

POWER UNIT PE-144

Power Unit PE-144 is an electric generating set consisting of a 2-cylinder, 4-cycle, L-head, liquid-cooled, manual (crank), and electric-starting gasoline engine, directly connected to an a-c generator of the 4-pole, self-exciting type.

The engine is rated 5.1 horsepower at 1,800 revolutions per minute and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator is rated at 1.5 kilowatts, 60 cycles, single phase, 115 volts, 17.5 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-621 and SCR-641.

POWER UNIT PE-144

ENGINE CHARACTERISTICS

MAKE: D.W.Onan & Sons (gasoline)
 MODEL: W-2-M
 RATED: 5.1 HP @ 1,800 rpm
 CYLINDERS: 2 BORE: 3" STROKE: 2-3/4"
 COMPRESSION RATIO: 5.5
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Chrome alloy steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 9 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals (separate)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.5 gal
 LUBRICATION SYSTEM: Pressure and spray

CRANKCASE OIL CAPACITY: 6 qts
 AIR CLEANER: Oil-bath type
 STARTING: Manual (crank) and electric, 12-volt
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D.W.Onan & Sons
 MODEL: W-2-M
 TYPE OF GENERATOR: A-c, 4-pole, self-excited.
 RATING:
 1.5 KW 1,500 WATTS
 115 VOLTS 17.5 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2
 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1 ball, on outboard end of generator
 INSULATION: Class A

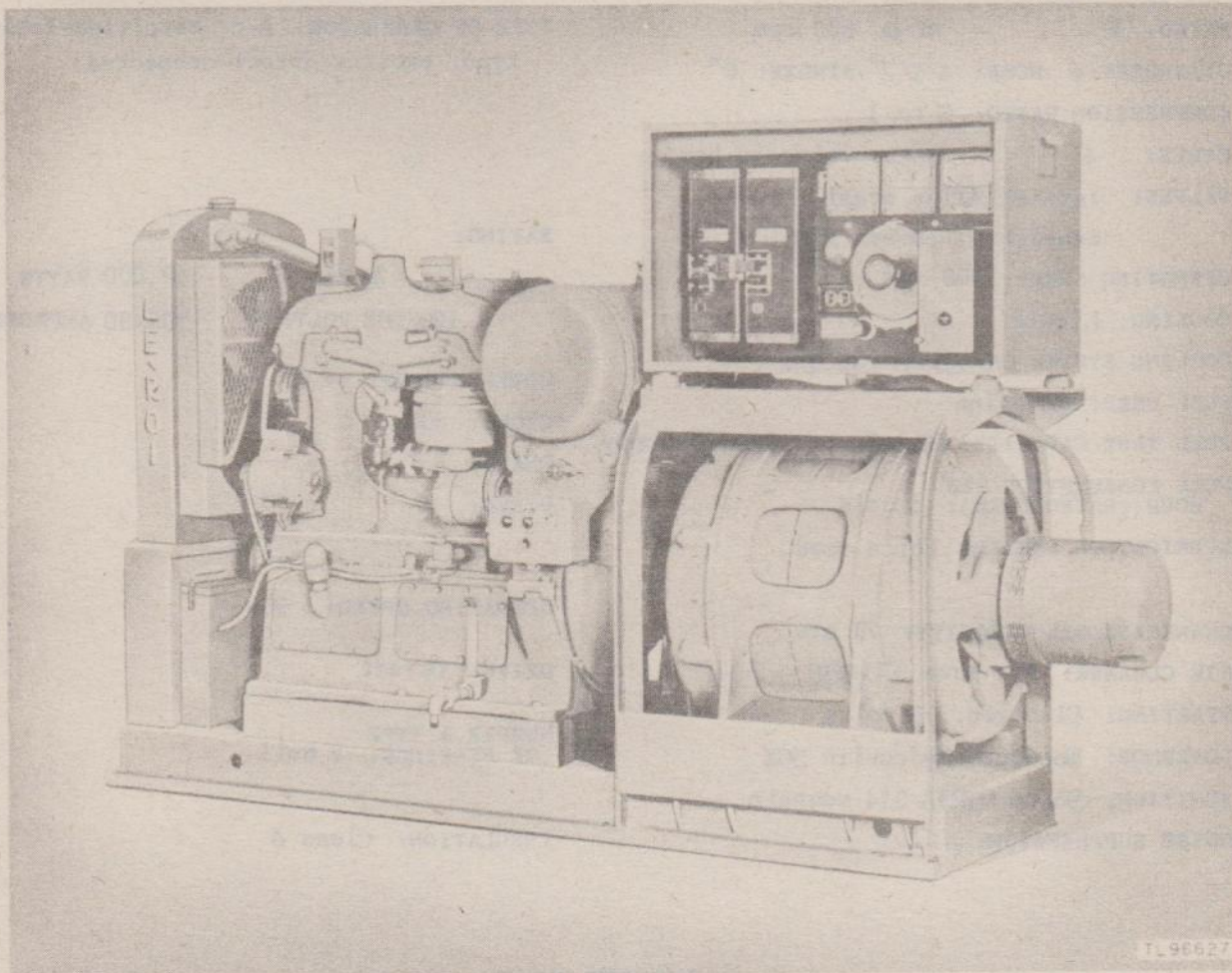
COMPLETE UNIT

LENGTH: WIDTH: HEIGHT:
 WEIGHT: (NET) WEIGHT: (CRATED)

<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4512/1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency</p>
	<p>STOCK NO. 3H4512</p>

STATUS: Standard

POWER UNIT

PE-145-A

POWER UNIT PE-145-A

Power Unit PE-145-A is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving-field type with exciter direct-connected.

The engine is rated 48 horsepower at 900 revolutions per minute and consumes approximately 4 gallons of fuel per hour at rated load.

The generator is rated at 20 kilowatts, 60 cycles, single phase, 120/208 volts, and 208/90 amperes at 80 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Set SCR-545-A.

POWER UNIT PE-145-A

ENGINE CHARACTERISTICS

MAKE: LeRoi Co (gasoline)
 MODEL: D-382
 RATED: 48 HP @ 900 rpm
 CYLINDERS: 4 BORE: 4-1/2" STROKE: 6"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Thompson XCR
 OPERATING SPEED: 900 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 36 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 15 gals or remote supply
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 4 gals
 LUBRICATION SYSTEM: Force feed

 CRANKCASE OIL CAPACITY: 28 qts
 AIR CLEANER: Air maze 37U-OBF
 STARTING: Electric, 12 volts
 GOVERNOR: Woodward-Hydraulic SGX
 IGNITION: Bosch MJB4A-314 magneto
 NOISE SUPPRESSION: -----

GENERATOR CHARACTERISTICS

MAKE: Westinghouse Electric & Mfg Co
 MODEL: S085-11-380
 TYPE OF GENERATOR: A-c, revolving-field type, exciter direct-connected

 RATING:
 20 KW 20,000 WATTS
 120/208 VOLTS 208/90 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 900
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 111-3/4" WIDTH: 32" HEIGHT: 63-7/8"
 WEIGHT: (NET) 4,945 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-929	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-145A

R & V - HKGS

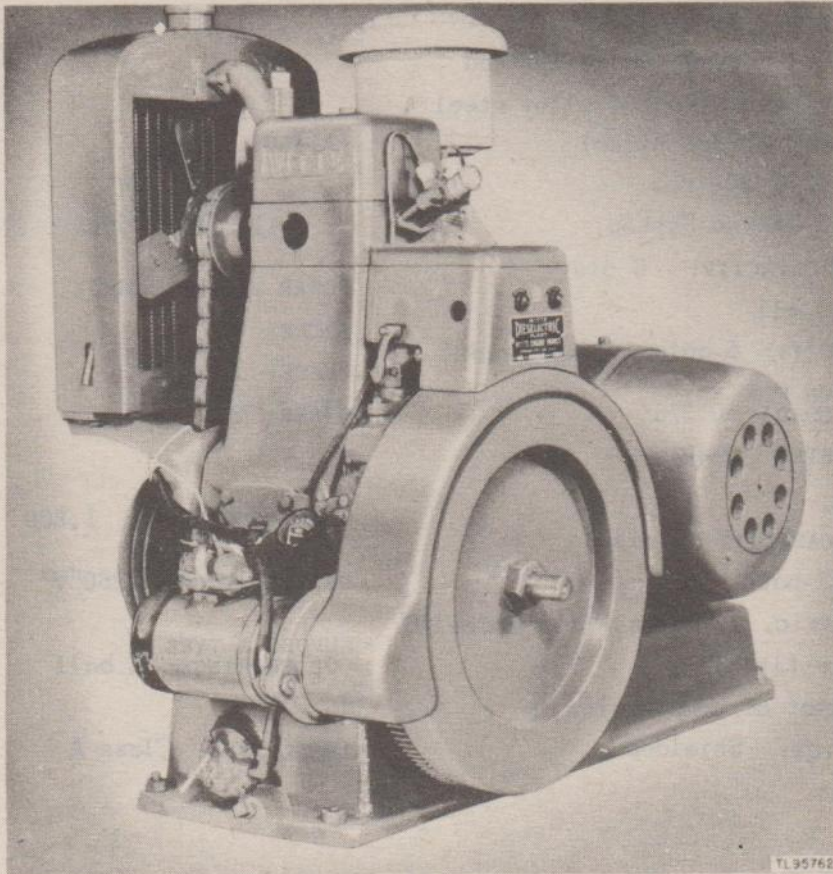
GEREGISTREERD

STATUS: SEE BELOW *

POWER UNIT

PE-148-A

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-148-A

Power Unit PE-148-A is an electric generating set consisting of a single cylinder, 4-cycle, valve-in-head, liquid-cooled, (Thermo-syphon) electric-starting Diesel engine, with an a-c generator of the self-exciting type, belt-driven.

The engine is rated 4 horsepower at 1,200 revolutions per minute, and consumes 0.278 gallon of fuel per hour at rated load.

The generator is rated at 2.4 kilowatts, 60 cycles, single phase, 110/220 volts and 27.2/13.6 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-148-A

ENGINE CHARACTERISTICS

MAKE: Witts Engine Works (Diesel)
 MODEL: VD-11
 RATED: 4 HP @ 1200 rpm
 CYLINDERS: 1 BORE: 3-1/4" STROKE: 4-1/2"
 COMPRESSION RATIO: 19 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Heat-treated alloy steel
 Exhaust: Chromè nickel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid Thermo-Syphon
 COOLING SYSTEM CAPACITY: 8 qts
 FUEL USED: Fuel oil
 FUEL TANK CAPACITY: 5 gals (remote tank)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.278
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 5 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric, 12 volts, Witte Model AD
 GOVERNOR: Witte flyball
 IGNITION: By heat of compression
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Kato Engineering Co
 MODEL: 33AD
 TYPE OF GENERATOR: A-c, self-excited

 RATING:
 2.4 KW 2,400 WATTS
 110/220 VOLTS 27.2/13.6 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

 OPERATING SPEED: 1,800

 DRIVE: Belted 2B60"V"

 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

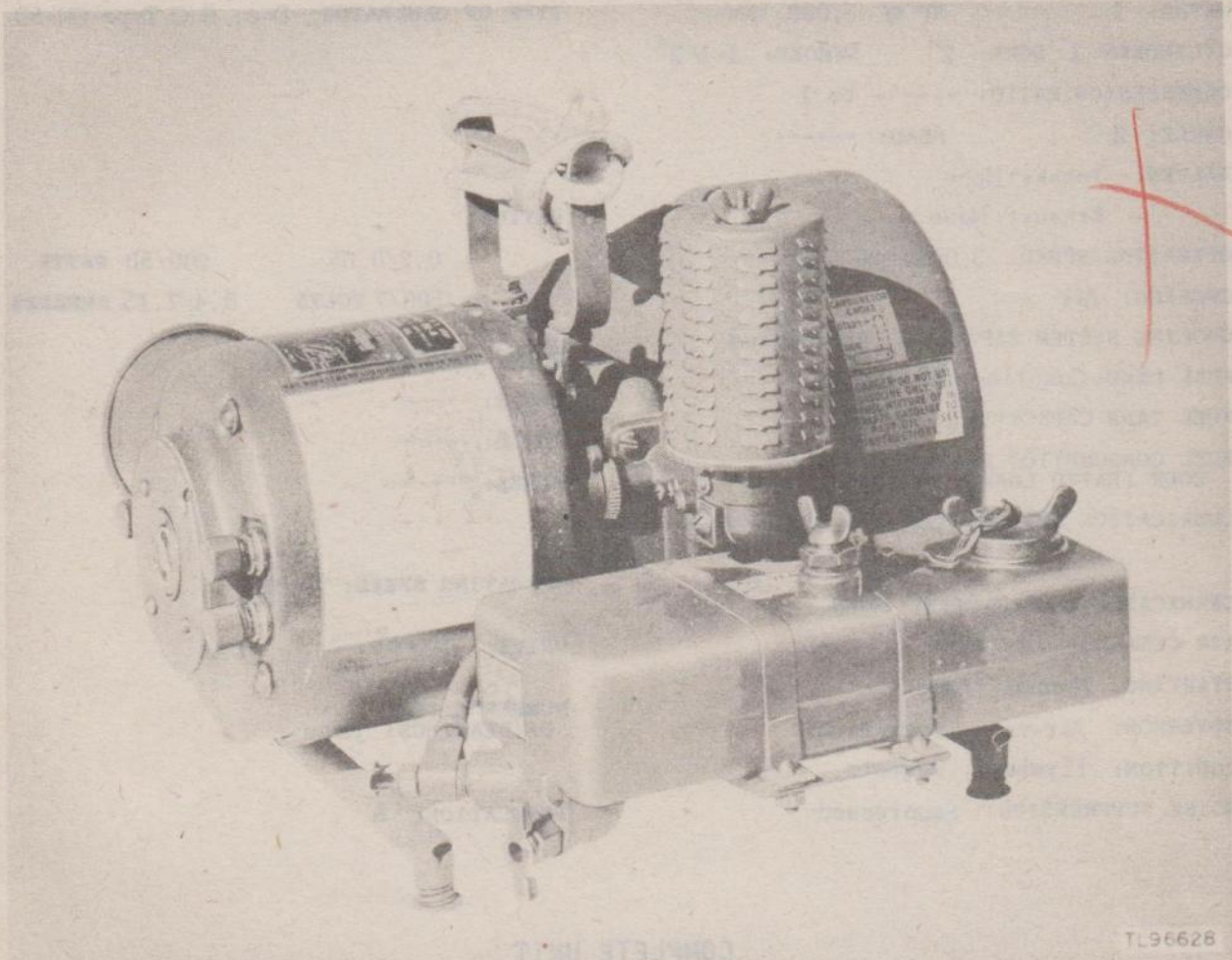
LENGTH: 37-3/8" WIDTH: 23-1/2" HEIGHT: 36-1/2"
 WEIGHT: (NET) 900 lb WEIGHT: (CRATED) 1130

INSTRUCTIONAL LITERATURE Instruction Book (Witte Model VD-11) stock No. 3H4512.3-1/1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4512.3-1

STATUS: Standard

POWER UNIT

DATE APPROVED: 24 Oct 44

PE-162

POWER UNIT PE-162

Power Unit PE-162 is an electric generating set consisting of a 1-cylinder, 2-cycle, air-cooled, manual-starting (rope) gasoline engine, directly-connected to a d-c generator of the revolving-magnet type.

The engine is rated 1 horsepower, at 3,000 revolutions per minute, and consumes approximately 0.15 gallon of fuel per hour at rated load.

The generator has two windings, 200 watts at 500 volts, 0.4 amperes direct current and 50 watts at 7 volts, 7.5 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets AN/TRC-2 (modified SCR-694), SCR-284.

POWER UNIT PE-162

ENGINE CHARACTERISTICS

MAKE: Jacobsen Mfg Co (gasoline)
 MODEL: J100 S C Type GE-12
 RATED: 1 HP @ 3,000 rpm
 CYLINDERS: 1 BORE: 2" STROKE: 1-1/2"
 COMPRESSION RATIO: ----- to 1
 CYCLE: 2 HEAD: -----
 VALVES: Intake: None
 Exhaust: None
 OPERATING SPEED: 3,000 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline and oil
 FUEL TANK CAPACITY: 0.3 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.15 gal
 LUBRICATION SYSTEM: Gas and oil mixed

CRANKCASE OIL CAPACITY: None
 AIR CLEANER: Dry type
 STARTING: Manual (rope)
 GOVERNOR: Air-vane, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Suppressed

GENERATOR CHARACTERISTICS

MAKE: Leland Electric Co
 MODEL: Type-G-Frame-L-55
 TYPE OF GENERATOR: D-c, S C Type GN-50

RATING:
 0.2/0.05 200/50 WATTS
 500/7 VOLTS 0.4/7.15 AMPERES

POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: -----

OPERATING SPEED: 3,000
 DRIVE: Direct
 NUMBER & TYPE
 OF BEARINGS: None
 INSULATION: A

COMPLETE UNIT

LENGTH: 16-1/4" WIDTH: 18-1/2" HEIGHT: 11"
 WEIGHT: (NET) 42 lb WEIGHT: (CRATED)

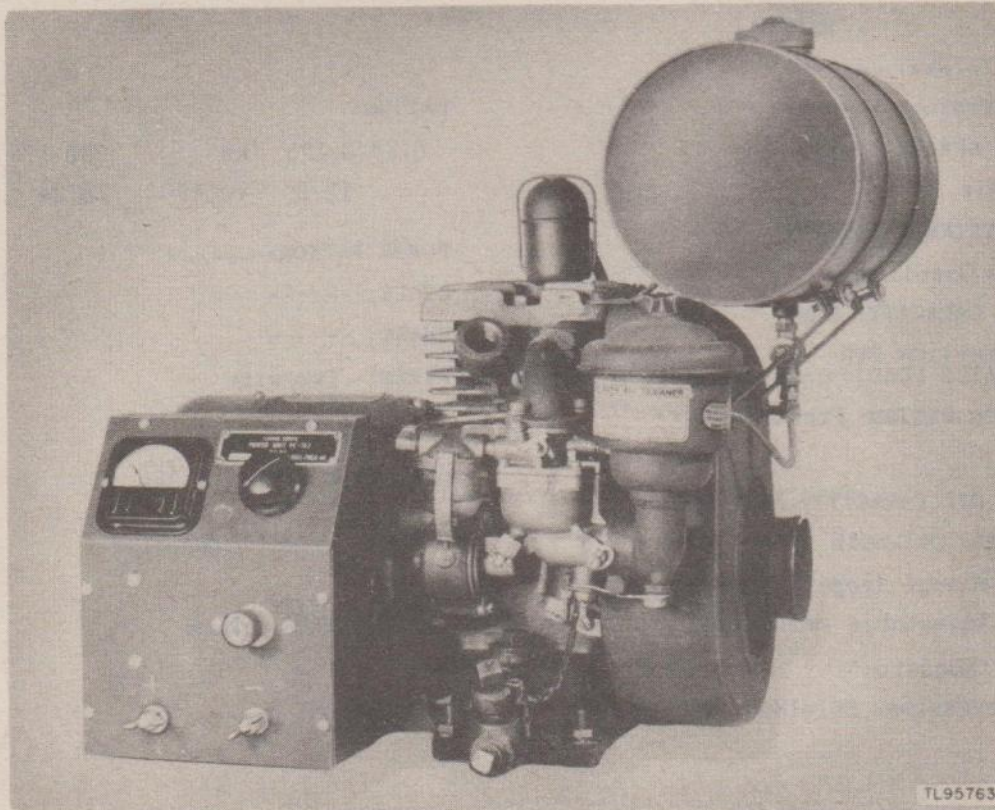
INSTRUCTIONAL LITERATURE TM 11-971 (when published)	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-162

STATUS: SEE BELOW *

POWER UNIT

PE-167

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-167**

Power Unit PE-167 is an electric generating set consisting of a single-cylinder, 4-cycle, L-head, air-cooled, manual (rope) starting gasoline engine, directly connected to a d-c generator.

The engine is rated 1.4 horsepower at 2,350 revolutions per minute and consumes approximately 0.06 gallon of fuel per hour at rated load.

The generator has two outputs, 350 watts at 12 volts, 28 amperes direct current, and 175 watts at 6 volts 24 amperes direct current.

This power unit is used for battery charging.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment.

* Available and preferred for issue.

POWER UNIT PE-167

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: NP
 RATED: 1.4 HP @ 2,350 rpm
 CYLINDERS: 1 BORE: 2" STROKE: 2"
 COMPRESSION RATIO: 5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: -----
 Exhaust: -----
 OPERATING SPEED: 2,350 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: -----
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): approximately 0.06 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 1 pt
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Adjustable mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Atlas Aircraft Products Corp.
 MODEL: 3DP2
 TYPE OF GENERATOR: D-c

 RATING:
 0.35/0.175 KW 350/175 WATTS
 12/6 VOLTS 28/24 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: Two-wire

 OPERATING SPEED: 2,350
 DRIVE: Direct-connected
 NUMBER & TYPE
 OF BEARINGS: None

 INSULATION: -----

COMPLETE UNIT

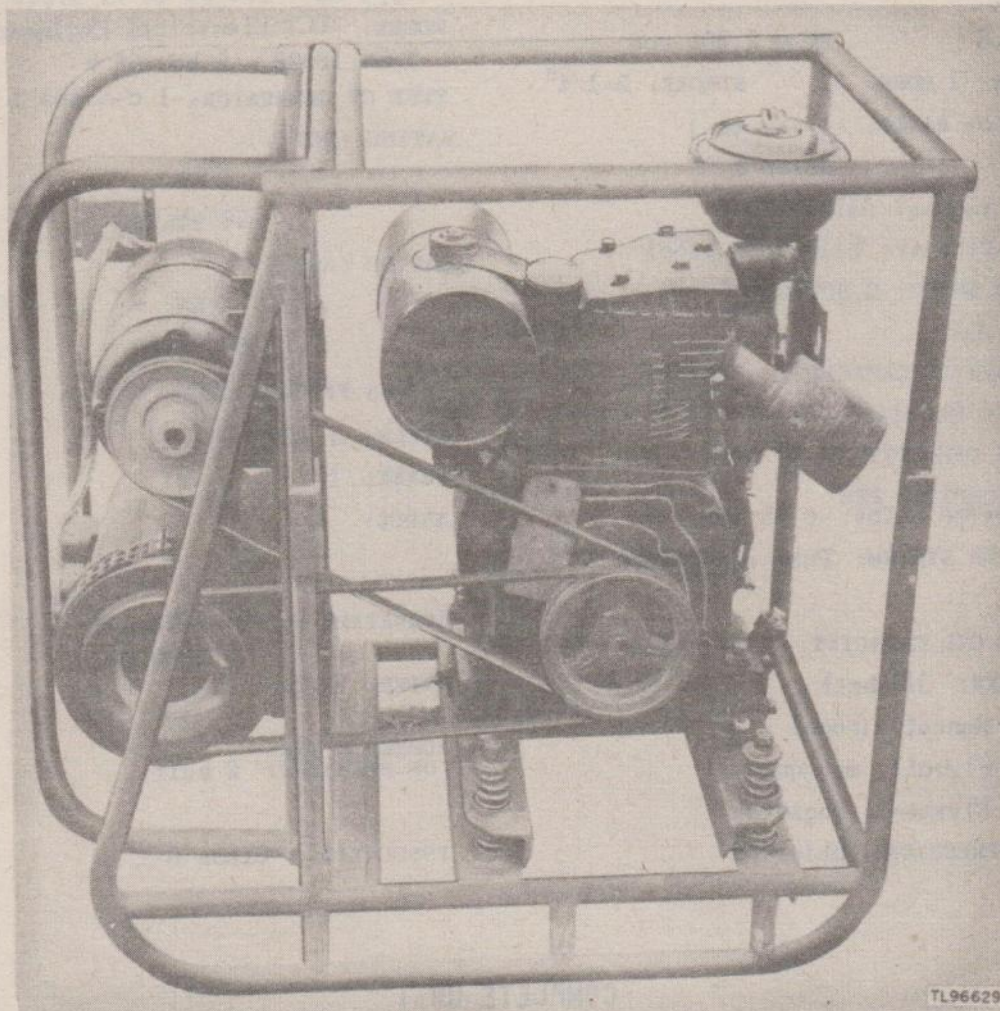
LENGTH: 18" (Approx) WIDTH: 12-1/2" (Approx) HEIGHT: 15-1/2" (Approx)
 WEIGHT: (NET) 75 lb WEIGHT: (CRATED) 108 lb

INSTRUCTIONAL LITERATURE TM 11-946	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-167

STATUS: Standard

POWER UNIT

DATE:

PE-173**POWER UNIT PE-173**

Power Unit PE-173 is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, belt driven a-c and d-c generators.

The engine is rated 6.5 horsepower at 2,800 revolutions per minute and consumes approximately 0.65 gallon of fuel per hour at rated load.

The generators are rated; 600 watts, 1,200 cycles, single phase, 80 volts, 7.5 amperes at 100 percent power factor and 500 watts, 28 volts, 18 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Transmitting Set AN/TPT-1, and Radio Set SCR-602.

POWER UNIT PE-173

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: ZZ
 RATED: 6.5 HP @ 2,800 rpm
 CYLINDERS: 1 BORE: 3" STROKE: 3-1/4"
 COMPRESSION RATIO: ----- to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: -----
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1.25 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.65 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual, (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: (AC) Small Electric Motor Co
 Type SS - 0.6 kw 80 v, 1,200 cycle
 MODEL: (DC) Electrical Engineering Co
 Type 18928 - 5 kw, 28 v
 TYPE OF GENERATOR: 1 a-c and 1 d-c
 RATING (DC):
 .5 KW 500 WATTS
 28 VOLTS 18 AMPERES
 RATING (AC):
 .6 KW 600 WATTS
 80 VOLTS 7.5 AMPERES
 POWER FACTOR: 100%
 CYCLE: 1,200
 PHASE: 1
 WIRES: 4

 OPERATING SPEED: 2770 A-C
 3300 D-C
 DRIVE: Belt
 NUMBER & TYPE OF BEARINGS: 2 ball
 INSULATION: Class A

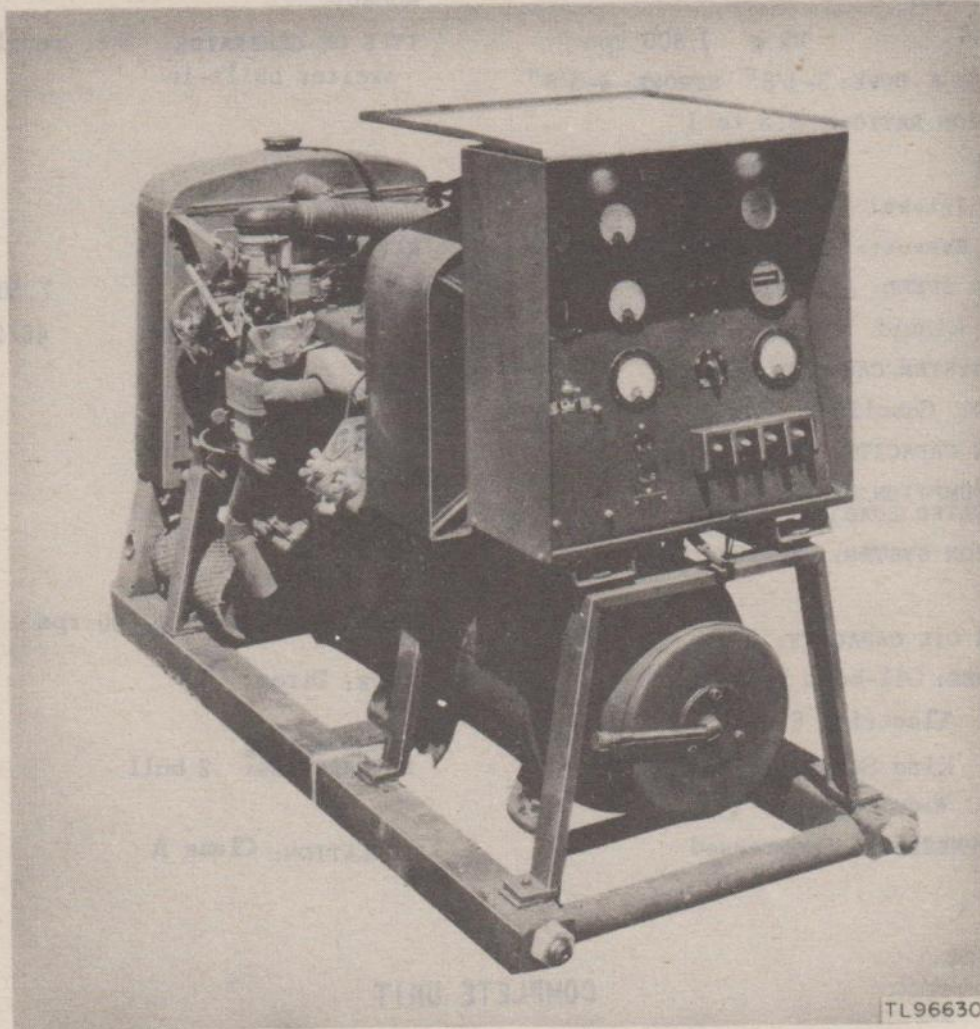
COMPLETE UNIT

LENGTH: WIDTH: HEIGHT:
 WEIGHT: (NET) WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-1326 TM 11-1426 TM 11-1526 (when published)	SECURITY CLASSIFICATION OF THIS EQUIPMENT: RESTRICTED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600A

POWER UNIT

PE-182



POWER UNIT PE-182

Power Unit PE-182 is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly-connected to an a-c generator of the revolving-field type.

The engine is rated 35 horsepower at 1,800 revolutions per minute and consumes 1.4 gallons of fuel per hour at rated load.

The generator is rated at 7.5 kilowatts, 60 cycles, 3-phase, 120/208 volts, 46/26 amperes at 80 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Set SCR-682.

POWER UNIT PE-182

ENGINE CHARACTERISTICS

MAKE: Willys Overland Motor Co (gasoline)
MODEL: JP 441
RATED: 35 HP @ 1,800 rpm
CYLINDERS: 4 **BORE:** 3-1/8" **STROKE:** 4-3/8"
COMPRESSION RATIO: 6.5 to 1
CYCLE: 4 **HEAD:** L
VALVES: Intake: Alloy steel
 Exhaust: Alloy steel -Silchrome
OPERATING SPEED: 1,800 rpm
COOLING: Liquid
COOLING SYSTEM CAPACITY: 20 qts
FUEL USED: Gasoline
FUEL TANK CAPACITY: 10-1/2 gals
FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.4 gals
LUBRICATION SYSTEM: Pressure

CRANKCASE OIL CAPACITY: 5 qts
AIR CLEANER: Oil-bath type
STARTING: Electric, 6 volt
GOVERNOR: King Seeley No. 267 10-326
IGNITION: Wico magneto
NOISE SUPPRESSION: Suppressed

GENERATOR CHARACTERISTICS

MAKE: Hobart Brothers
MODEL:
TYPE OF GENERATOR: A-c, revolving-field, exciter built-in

RATING:
 7.5 KW 7,500 WATTS
 120/208 VOLTS 46/26 AMPERES

POWER FACTOR: 80%
CYCLE: 60
PHASE: 3
WIRES: 4

OPERATING SPEED: 1,800 rpm
DRIVE: Direct

NUMBER & TYPE OF BEARINGS: 2 ball

INSULATION: Class A

COMPLETE UNIT

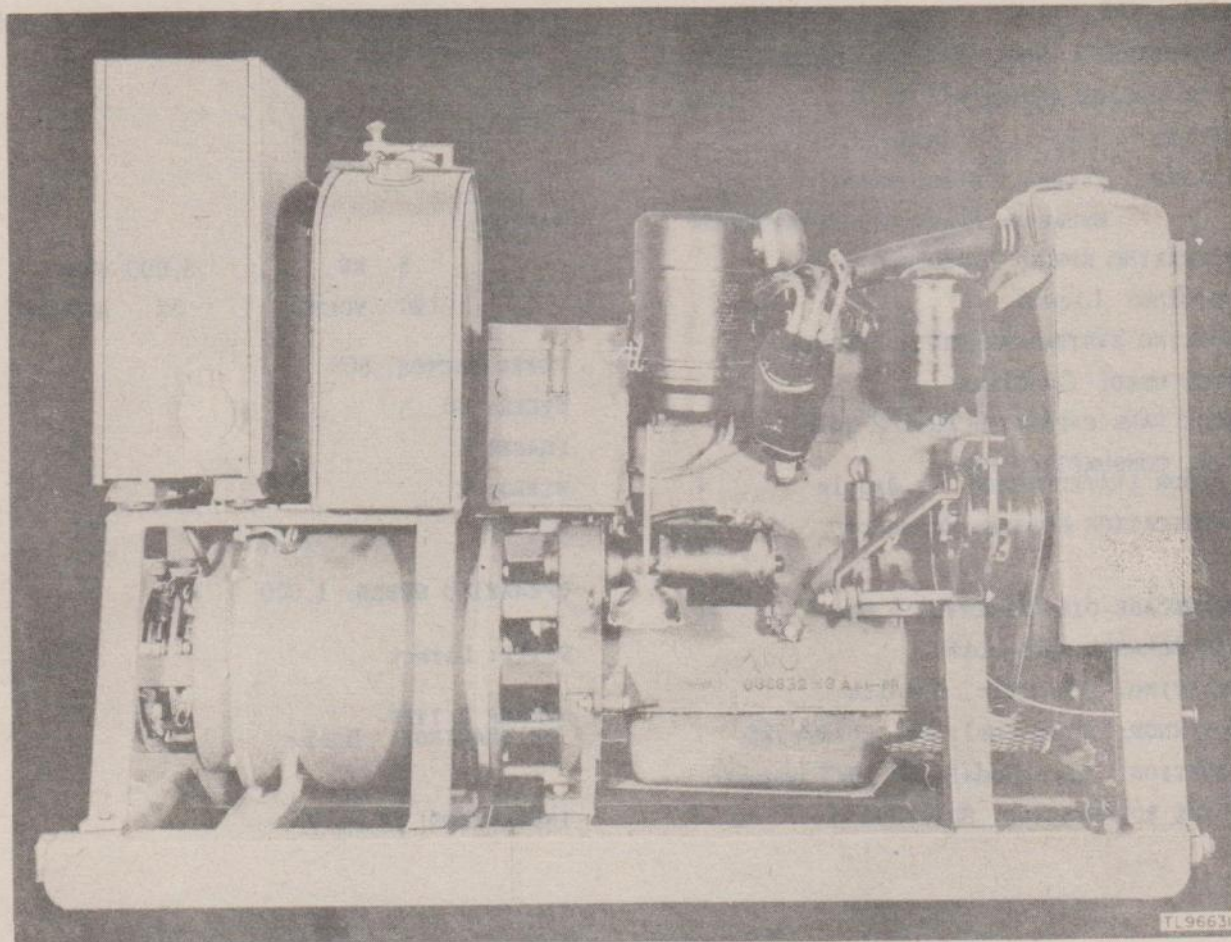
LENGTH: 59" **WIDTH:** 24" **HEIGHT:** 40"
WEIGHT: (NET) 1,125 lb **WEIGHT: (CRATED)**

INSTRUCTIONAL LITERATURE TM 11-939	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-182

STATUS: Substitute standard

POWER UNIT

DATE APPROVED: 26 Nov 43

PE-183-A**POWER UNIT PE-183-A**

Power Unit PE-183-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving-field type with integral excitation.

The engine is rated 35 horsepower at 1,800 revolutions per minute and consumes approximately 1.4 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 120 volts, 52 amperes at 80 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Set SCR-682.

POWER UNIT PE-183-A

ENGINE CHARACTERISTICS

MAKE: Willys Overland Motor Co (gasoline)
 MODEL: 442
 RATED: 35 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 3-1/8" STROKE: 4-3/8"
 COMPRESSION RATIO: 6.5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Alloy steel-silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 20 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10-1/2 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.4 gals
 LUBRICATION SYSTEM: Pressure
 CRANKCASE OIL CAPACITY: 5 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric, 6 volts
 GOVERNOR: King Seely No. 26710-326
 IGNITION: Wico Model JEM 1677 magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

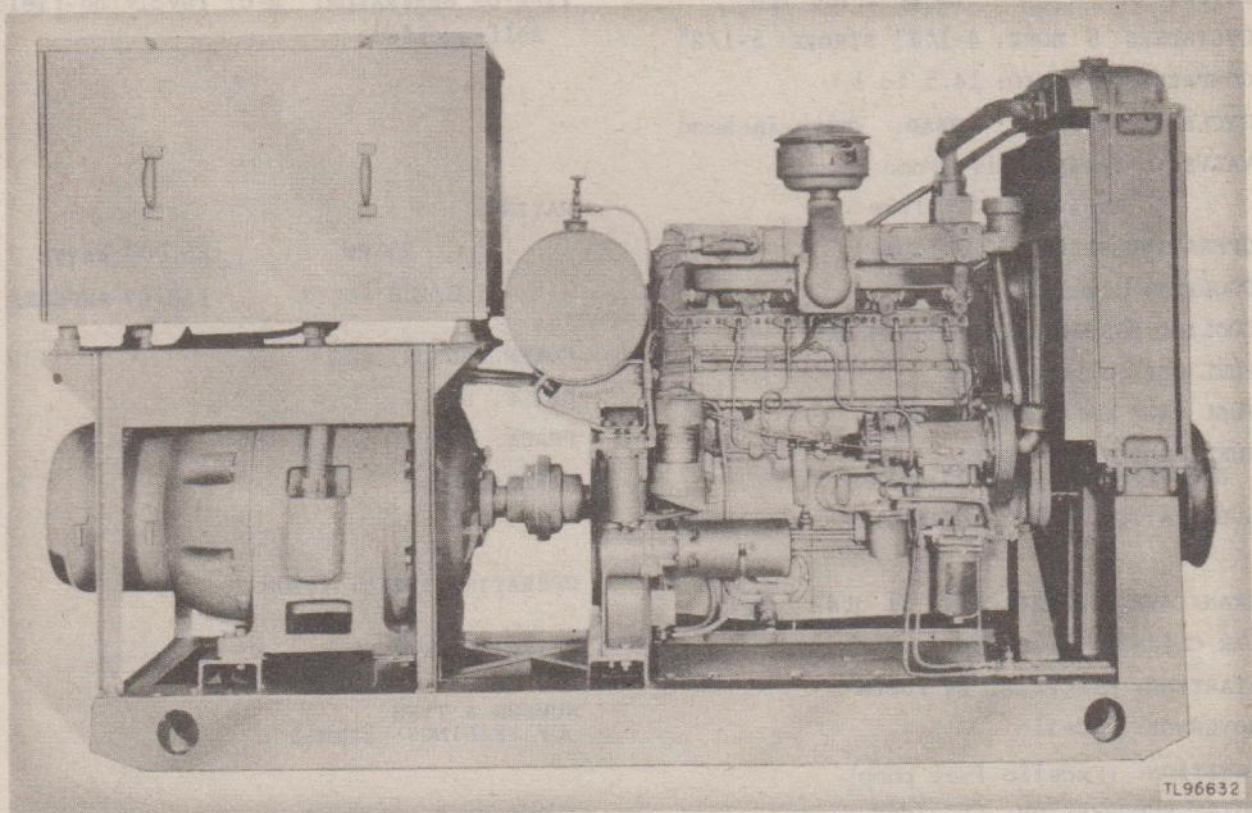
MAKE: Hobart Brothers
 MODEL:
 TYPE OF GENERATOR: A-c, revolving-field, exciter built-in
 RATING:
 5 KW 5,000 WATTS
 120 VOLTS 52 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2
 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: Ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 59" WIDTH: 24" HEIGHT: 38"
 WEIGHT: (NET) 1,115 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-937	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-183A

POWER UNIT

PE-185-A,-B**POWER UNIT PE-185-A, -B**

Power Unit PE-185-A, -B is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, full Diesel engine directly connected to an a-c generator of the revolving-field, self-exciting type.

The engine is rated 60 horsepower at 1,200 revolutions per minute and consumes approximately 3 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3-phase, 120/208 volts, and 150/87 amperes at 80 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Sets SCR-270, SCR-271, SCR-615, SCR-627, SCR-527 and SCR-516.

POWER UNIT PE-185-A, B

ENGINE CHARACTERISTICS

MAKE: Buda Model 6-DTG-468 (Diesel)
 MODEL: 6-DTG-468
 RATED: 60 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-1/4" STROKE: 5-1/2"
 COMPRESSION RATIO: 14.5 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 44 qts
 FUEL USED: Diesel fuel
 FUEL TANK CAPACITY: 15 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 3 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 31 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric, 24 volts
 GOVERNOR: Excello
 IGNITION: (Excello fuel pump)
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Westinghouse Electric and Mfg Co
 MODEL: G
 TYPE OF GENERATOR: A-c, revolving-field, self-excited

 RATING:
 25 KW 25,000 WATTS
 120/208 VOLTS 150/87 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

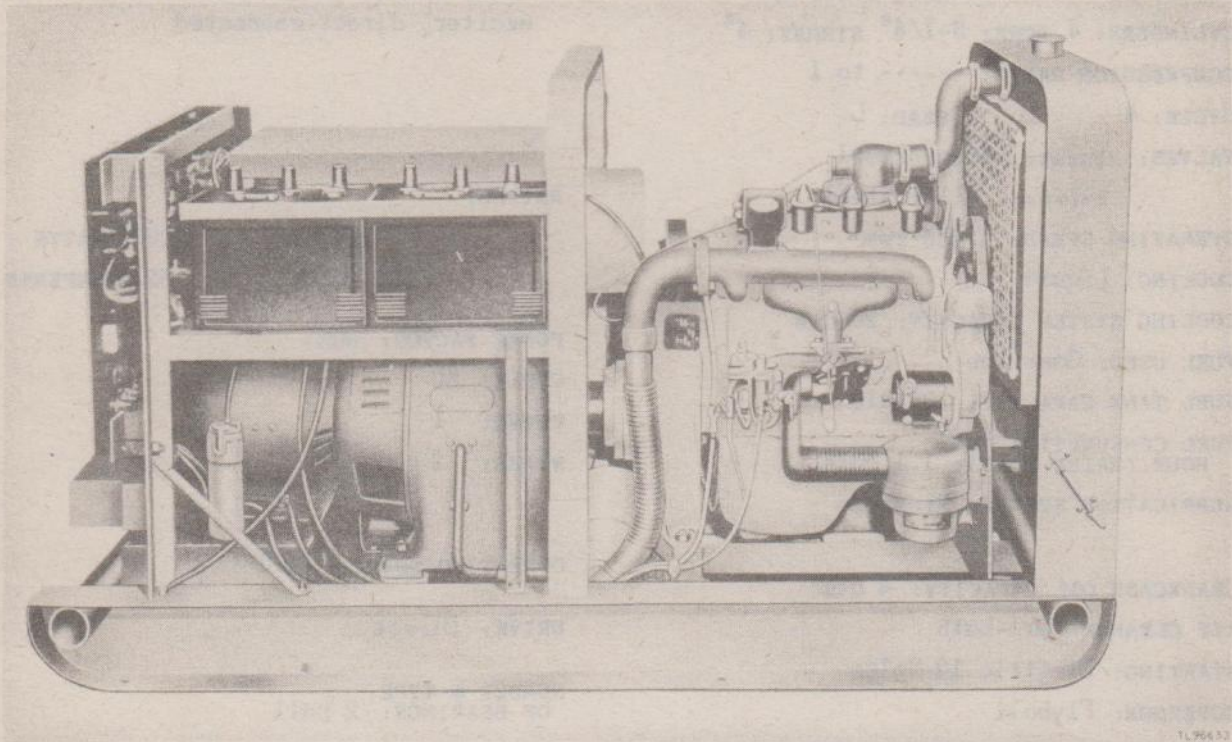
COMPLETE UNIT

LENGTH: 115-1/2" WIDTH: 33-1/8" HEIGHT: 63-1/4"
 WEIGHT: (NET) 5,785 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-925 for PE-185-A TM 11-925B for PE-185-B	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-185A, and B

POWER UNIT

PE-195-A



POWER UNIT PE-195-A

Power Unit PE-195-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving field type, with exciter direct-connected.

The engine is rated 14 horsepower at 1,200 revolutions per minute, and consumes approximately 1.1 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 120 volts, 52.5 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for British model WT stations.

POWER UNIT PE-195-A

ENGINE CHARACTERISTICS

MAKE: Waukesha Motor Co (gasoline)
 MODEL: F C
 RATED: 14 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-1/4" STROKE: 4"
 COMPRESSION RATIO: ----- to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Alloy steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 20 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.1 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric 12 Volts
 GOVERNOR: Flyball
 IGNITION: Fairbanks Morse JE4A, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Marble Cord Co
 MODEL: 28XCX-232
 TYPE OF GENERATOR: A-c, revolving-field, exciter, direct-connected

 RATING:
 5 KW 5,000 WATTS
 120 VOLTS 52.5 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

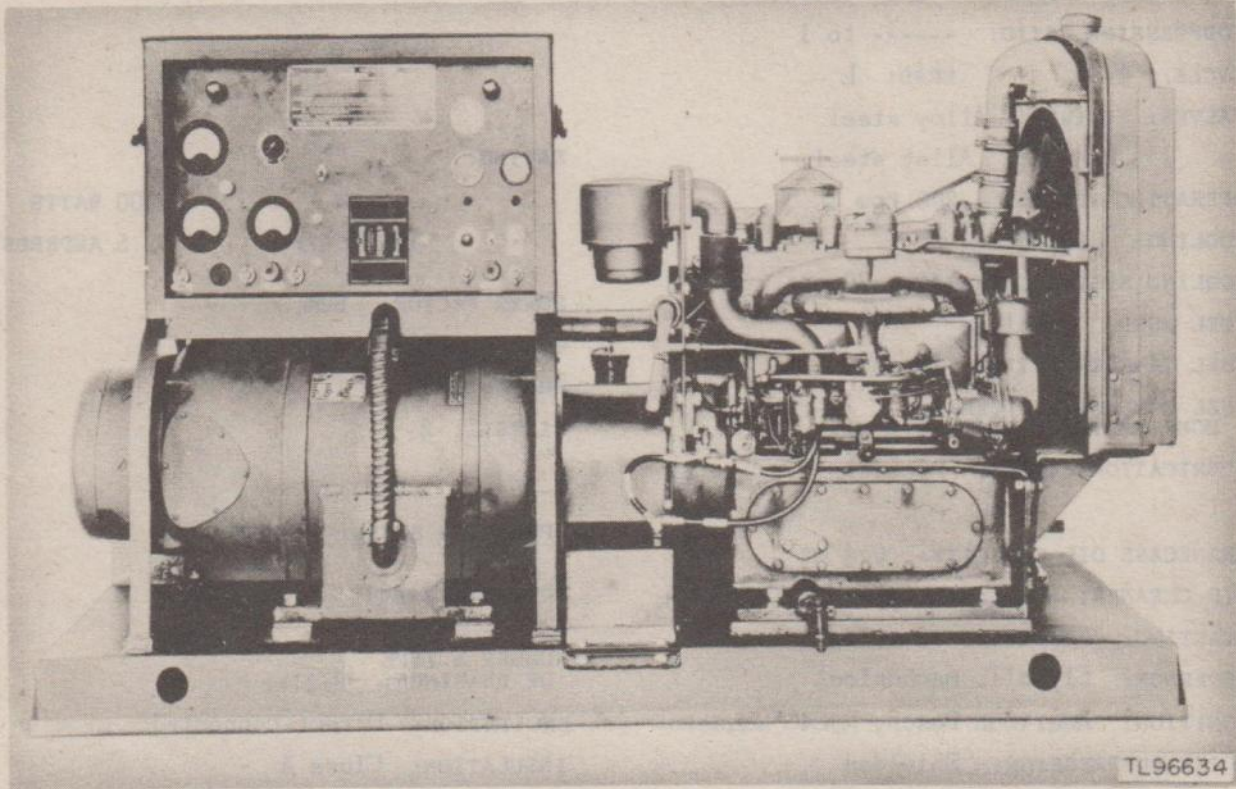
COMPLETE UNIT

LENGTH: 74" WIDTH: 30" HEIGHT: 38-1/2"
 WEIGHT: (NET) 1,900 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE Instruction Book	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-195A

STATUS: Limited standard

POWER UNIT

DATE APPROVED: 19 Jul 44**PE-196-A****POWER UNIT PE-196-A**

Power Unit PE-196-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 14 horsepower, at 1,200 revolutions per minute and consumes approximately 0.8 gallon of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 120 volts, 52.5 amperes at 80 percent power factor.

The principal application of this power unit is to furnish power for the operation of Signal Corps Radio Sets SCR-582 and SCR-682.

POWER UNIT PE-196-A

ENGINE CHARACTERISTICS

MAKE: Waukesha Motor Co (gasoline)
 MODEL: FC
 RATED: 14 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-1/4" STROKE: 4"
 COMPRESSION RATIO: ----- to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Alloy steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 20 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.8 gal
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 0.4 qt
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 12 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: American Bosch, MJC4C magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: American Custom Built
 MODEL: Frame - 1326
 TYPE OF GENERATOR: A-c, revolving-field exciter, direct-connected.

 RATING:
 5 KW 5,000 WATTS
 120 VOLTS 52.5 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: Roller
 EXCITATION: Direct-connected
 INSULATION: Class A

COMPLETE UNIT

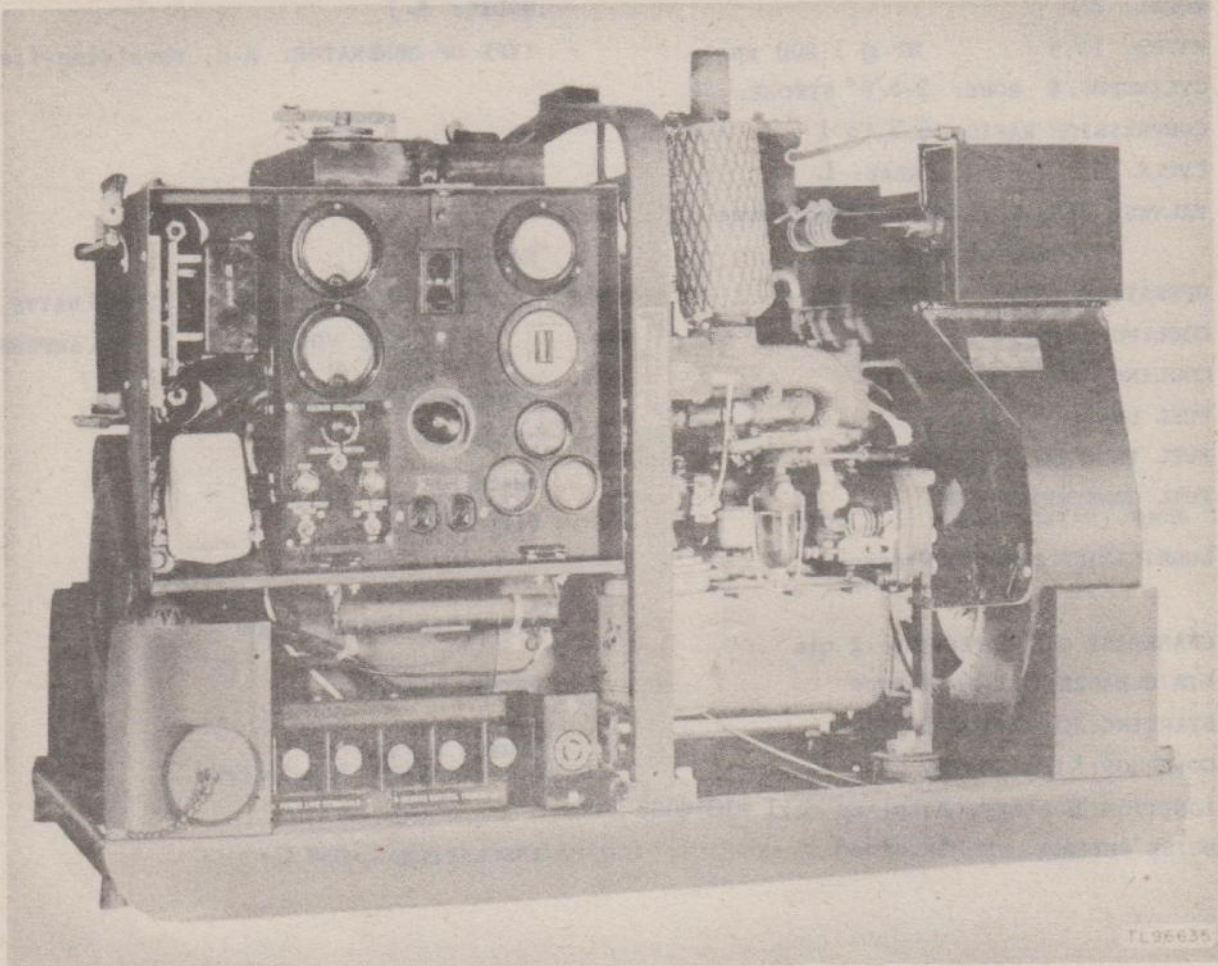
LENGTH: 72" WIDTH: 30" HEIGHT: 41-1/2"
 WEIGHT: (NET) 1,800 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE Instruction Book	SECURITY CLASSIFICATION OF THIS EQUIPMENT: RESTRICTED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-196A

STATUS: Standard

POWER UNIT

DATE APPROVED: 19 Jul 44

PE-197

POWER UNIT PE-197

Power Unit PE-197 is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator of the revolving-field type.

The engine is rated 13.5 horsepower at 1,800 revolutions per minute and consumes approximately 1.2 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 120 volts, 52.5 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-573, SCR-575, and SCR-643; and Control Sets SCR-572 and SCR-642.

POWER UNIT PE-197

ENGINE CHARACTERISTICS

MAKE: Hercules Motors Corp (gasoline)
 MODEL: ZXB
 RATED: 13.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-5/8" STROKE: 3"
 COMPRESSION RATIO: 6.3 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel steel
 Exhaust: Austemite
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY:
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 1.2 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 4 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 6 volts
 GOVERNOR: King Seeley
 IGNITION: Battery, Autolite coil #IG-4065
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Hobart Brothers
 MODEL: 5-J
 TYPE OF GENERATOR: A-c, revolving-field

 RATING:
 5 KW 5,000 WATTS
 120 VOLTS 52.5 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,200

 DRIVE: Direct

 NUMBER & TYPE
 OF BEARINGS: Single ball

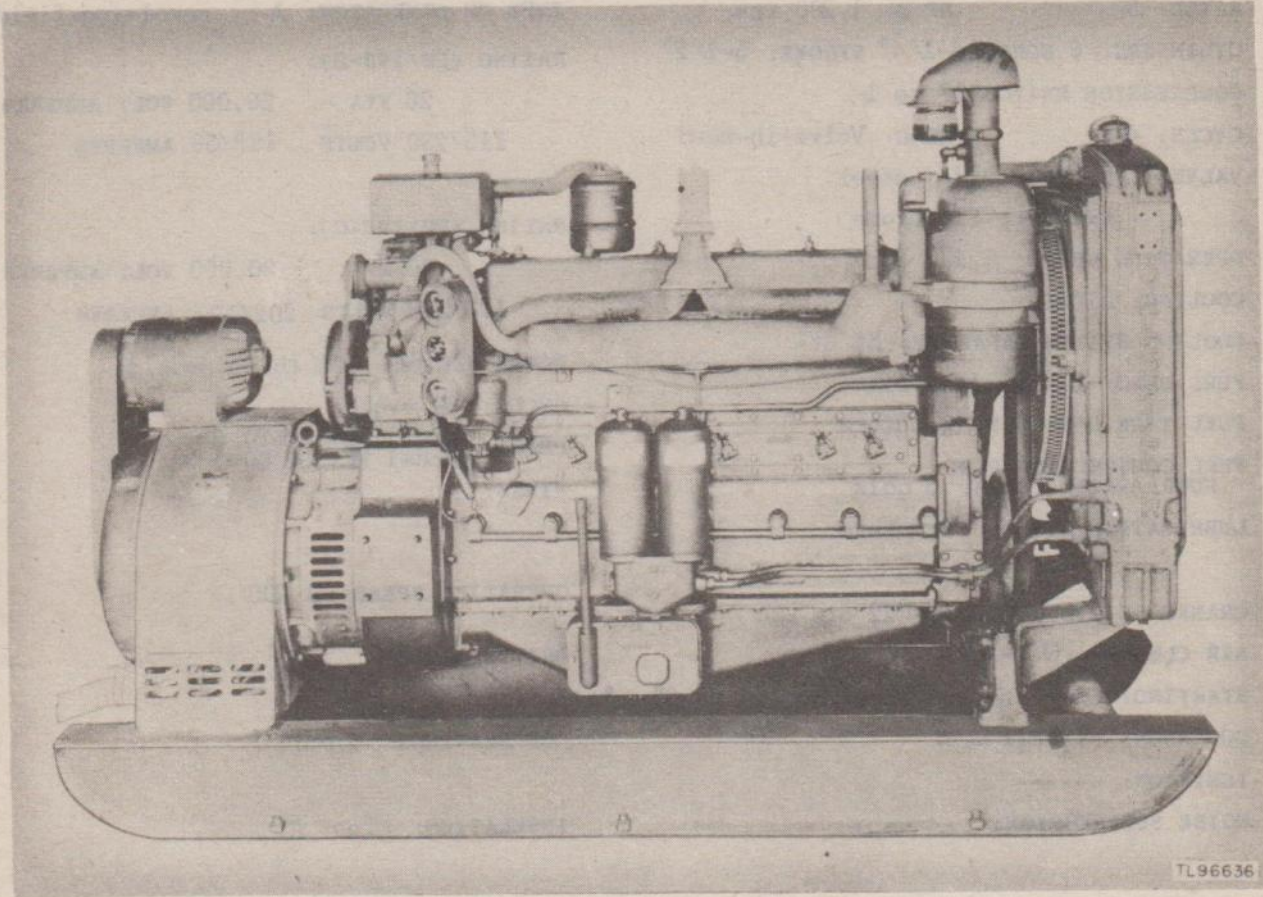
 INSULATION: Class C

COMPLETE UNIT

LENGTH: 44" WIDTH: 22" HEIGHT: 31-1/4"
 WEIGHT: (NET) 785 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-940	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-197

POWER UNIT

PE-198-B-C

TL96636

POWER UNIT PE-198-B, -C

Power Unit PE-198-B, -C is an electric generating set consisting of a 6-cylinder 4-cycle, valve-in-head, liquid-cooled, gasoline and electric-starting (24 to 32 volts), Diesel engine, directly connected to an a-c generator of the revolving-field type.

The engine is rated at 53 horsepower at 1,200 revolutions per minute, and consumes approximately 3 gallons of fuel per hour at rated load.

The generator is made in two styles. In the PE-198-B, the generator is rated at 20 kilowatts, 60 cycles, 3-phase, 115/230 volts 112/56 amperes at 90 percent power factor. In the PE-198-C, the generator is rated at 20 kilowatts, 60 cycles, single phase, 110/220 volts, 202/101 amperes at 90 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set SCR-588.

POWER UNIT PE-198-B, -C

ENGINE CHARACTERISTICS

MAKE: Caterpillar Tractor Co (Diesel)
 MODEL: 4600
 RATED: 53 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-1/4" STROKE: 5-1/2"
 COMPRESSION RATIO: 17 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 56 qts
 FUEL USED: Diesel fuel oil
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 3 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 22 qts
 AIR CLEANER: Oil-bath
 STARTING: Gasoline and electric (24 to 32 volts)
 GOVERNOR: Flyball
 IGNITION: -----
 NOISE SUPPRESSION: -----

GENERATOR CHARACTERISTICS

MAKE: Louis Allis Co
 MODEL: -----
 TYPE OF GENERATOR: A-c, revolving-field
 RATING (PE-198-B):
 20 KVA 20,000 VOLT AMPERES
 115/230 VOLTS 112/56 AMPERES

 RATING (PE-198-C):
 20 KVA 20,000 VOLT AMPERES
 110/220 VOLTS 202/101 AMPERES
 POWER FACTOR: 90% (both models)
 CYCLE: 60 cycle
 PHASE: (Model PE-198-B) 3
 (Model PE-198-C) 1
 WIRES: 9

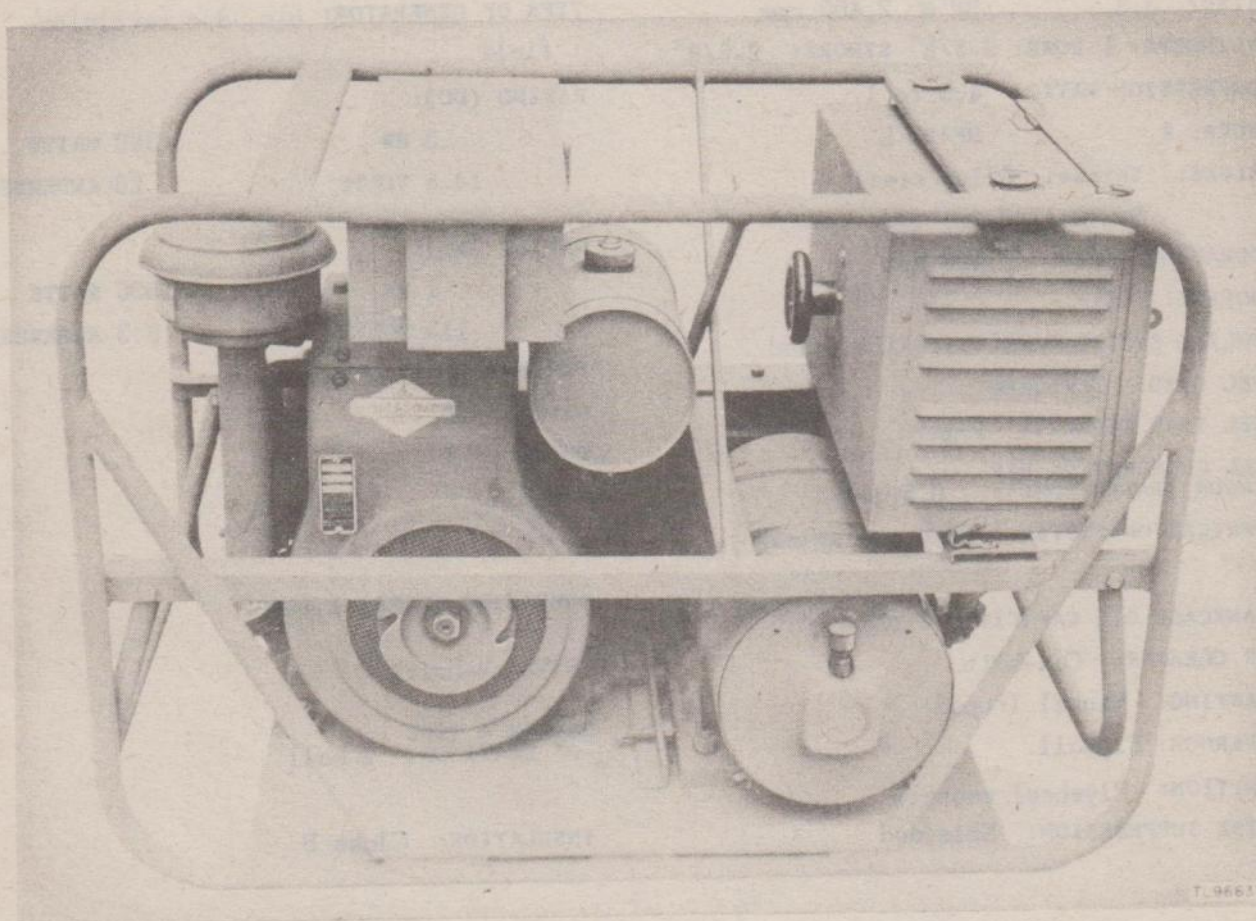
 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 99-1/2" WIDTH: 32" HEIGHT: 49"
 WEIGHT: (NET) 4,520 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-936 (when published)	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-198B-C

STATUS: Limited standard**POWER UNIT****DATE APPROVED:** 3 Mar 45**PE-201-A-B-C****POWER UNIT PE-201-A, -B, -C**

Power Unit PE-201-A, -B, -C is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine with an a-c, d-c generator of the revolving-field, dual-winding type, belt-driven.

The engine is rated 3.3 horsepower at 2,400 revolutions per minute, and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator has two windings; 1 kilowatt, 60 cycles, single phase, at 115 volts, 8.3 amperes at 80 percent power factor; and 300 watts at 14.5 volts, 20 amperes direct current.

The principal application of the power unit is the furnishing of power for the operation of telephone carrier systems, including Telephone Terminal Set TC-21; Telephone Terminal CF-1 and Telegraph Terminal CF-2.

POWER UNIT PE-201-A, -B, -C

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: B
 RATED: 3.3 HP @ 2,400 rpm
 CYLINDERS: 1 BORE: 2-5/8" STROKE: 2-5/8"
 COMPRESSION RATIO: 4.5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 2,400 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.5 gal
 LUBRICATION SYSTEM: Pump and splash

CRANKCASE OIL CAPACITY: 3 pts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Flyball
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Leland Electric Co
 MODEL: A-50
 TYPE OF GENERATOR: a-c, d-c revolving-field
 RATING (DC):
 .3 KW 300 WATTS
 14.5 VOLTS 20 AMPERES
 RATING (AC):
 1 KW 1000 WATTS
 115 VOLTS 8.3 AMPERES
 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

OPERATING SPEED: 1,800
 DRIVE: V-belts
 NUMBER & TYPE OF BEARINGS: 2 ball
 INSULATION: Class B

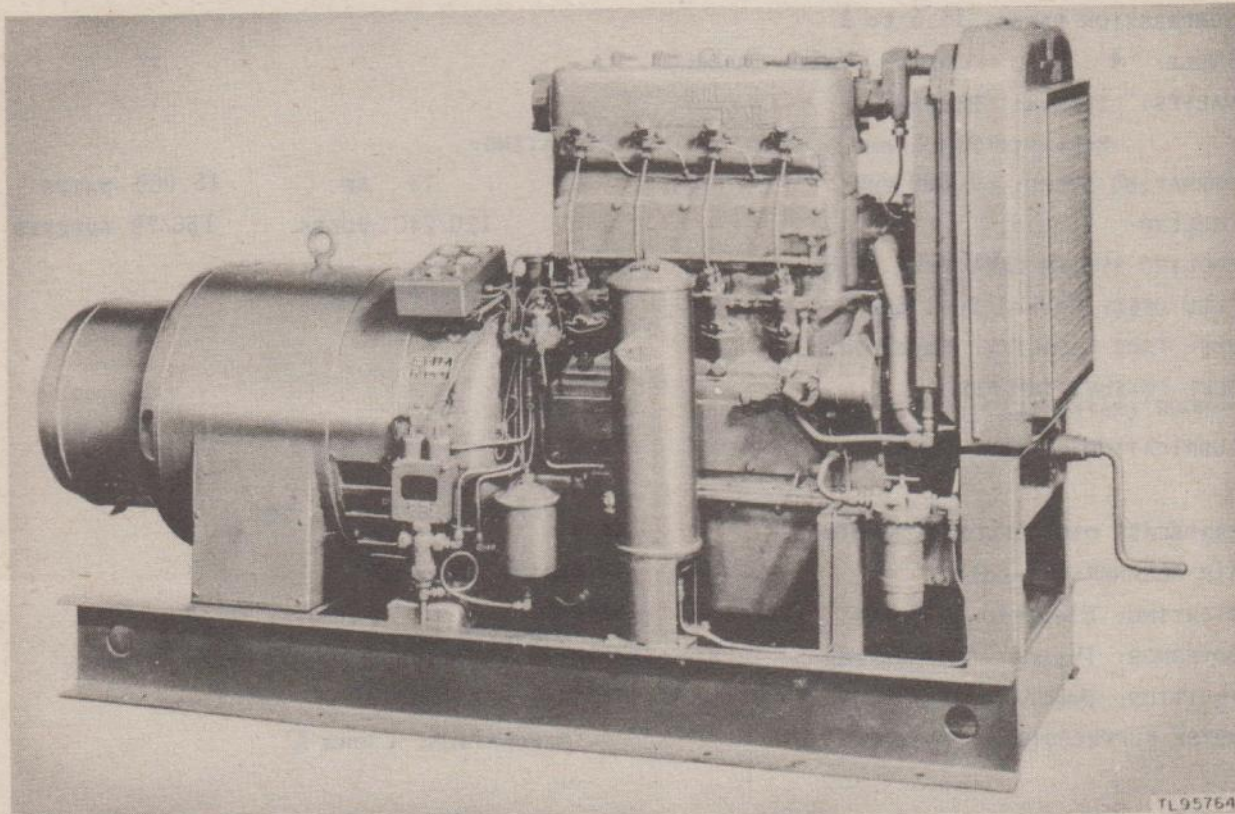
COMPLETE UNIT

LENGTH: 36" WIDTH: 19" HEIGHT: 24"
 WEIGHT: (NET) 300 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-914 for PE-201-A & B TM 11-914C for PE-201-C	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-201A, B & C

STATUS: SEE BELOW *

POWER UNIT

PE-205-A**FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY****POWER UNIT PE-205-A**

Power Unit PE-205-A is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting full Diesel engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 34 horsepower at 1,200 revolutions per minute and consumes approximately 1.6 gallons of fuel per hour at rated load.

The generator is rated at 15 kilowatts, 60 cycles, single phase, 120/240 volts, 156/78 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-205-A

ENGINE CHARACTERISTICS

MAKE: Hill Diesel Engine Co (Diesel)
 MODEL: 4R
 RATED: 34 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-1/2" STROKE: 5-1/2"
 COMPRESSION RATIO: 15.5 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Silchrome
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 28 qts.
 FUEL USED: Diesel fuel oil
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.6 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 30 qts.
 AIR CLEANER: Oil-bath
 STARTING: Electric 24 Volts
 GOVERNOR: Pierce - Mechanical
 IGNITION: Bosch - pump, fuel
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL: 21G342, Frame - 944-E
 TYPE OF GENERATOR: A-c, revolving field, separate excitation.

 RATING:
 15 KW 15,000 WATTS
 120/240 VOLTS 156/78 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 92" WIDTH: 30" HEIGHT: 51"
 WEIGHT: (NET) 3,000 lb WEIGHT: (CRATED) 4,469 lb

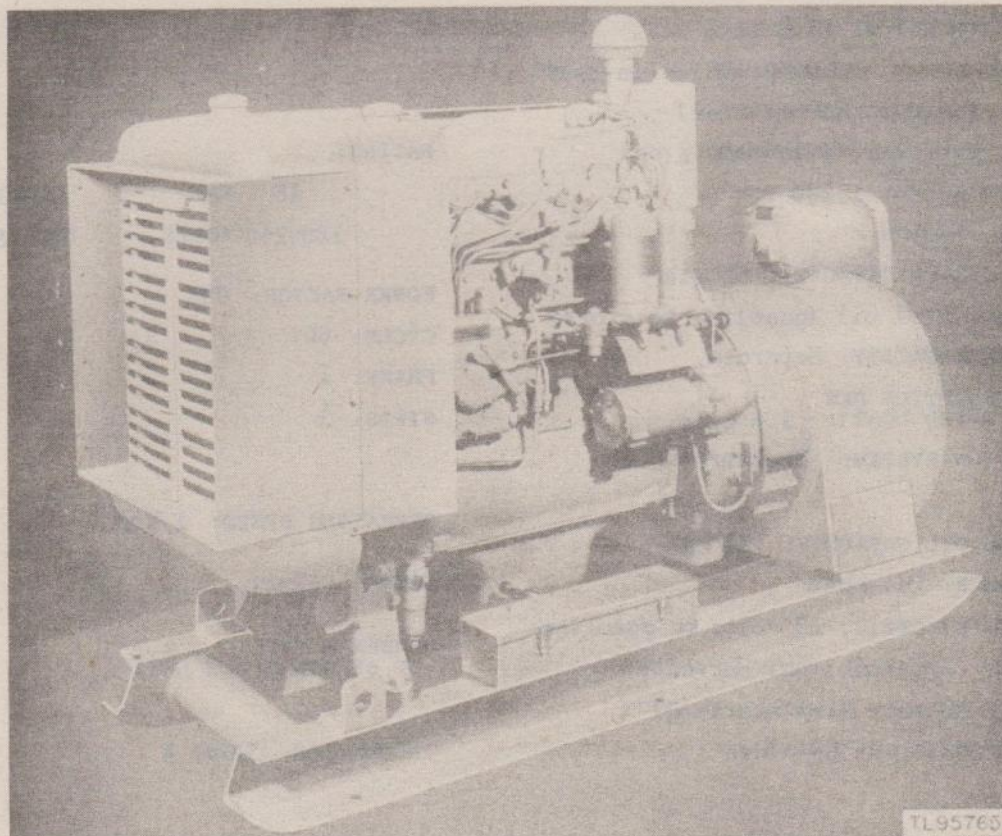
INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4600-205A/B1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-205A

STATUS: SEE BELOW *

POWER UNIT

PE-205-B

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-205-B

Power Unit PE-205-B is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, full-Diesel engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 46 horsepower at 1,200 revolutions per minute and consumes approximately 1.6 gallons of fuel per hour at rated load.

The generator is rated at 15 kilowatts, 60 cycles, single phase, 120/240 volts, 156/78 amperes at 80 percent power factor.

NOTE: This power unit was issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* None available for issue.

POWER UNIT PE-205-B

ENGINE CHARACTERISTICS

MAKE: International Harvester Co (Diesel)
 MODEL: UD-9
 RATED: 46 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 4.4" STROKE: 5.5"
 COMPRESSION RATIO: 14.2 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Nickel steel
 Exhaust: Silchrome steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 52 qts
 FUEL USED: Fuel oil (gasoline to start)
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 1.6 gals
 LUBRICATION SYSTEM: Pressure

CRANKCASE OIL CAPACITY: 11 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric, 12 volts on gasoline
 GOVERNOR: International Harvester
 IGNITION: Magneto (for starting)
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL: ASI, Frame -944E, form HA
 TYPE OF GENERATOR: A-c revolving field
 RATING:
 15 KW 15,000 WATTS
 120/240 VOLTS 156/78 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE
 OF BEARINGS: 2 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 85-1/4" WIDTH: 28" HEIGHT: 58"
 WEIGHT: (NET) 3,770 lb WEIGHT: (CRATED)

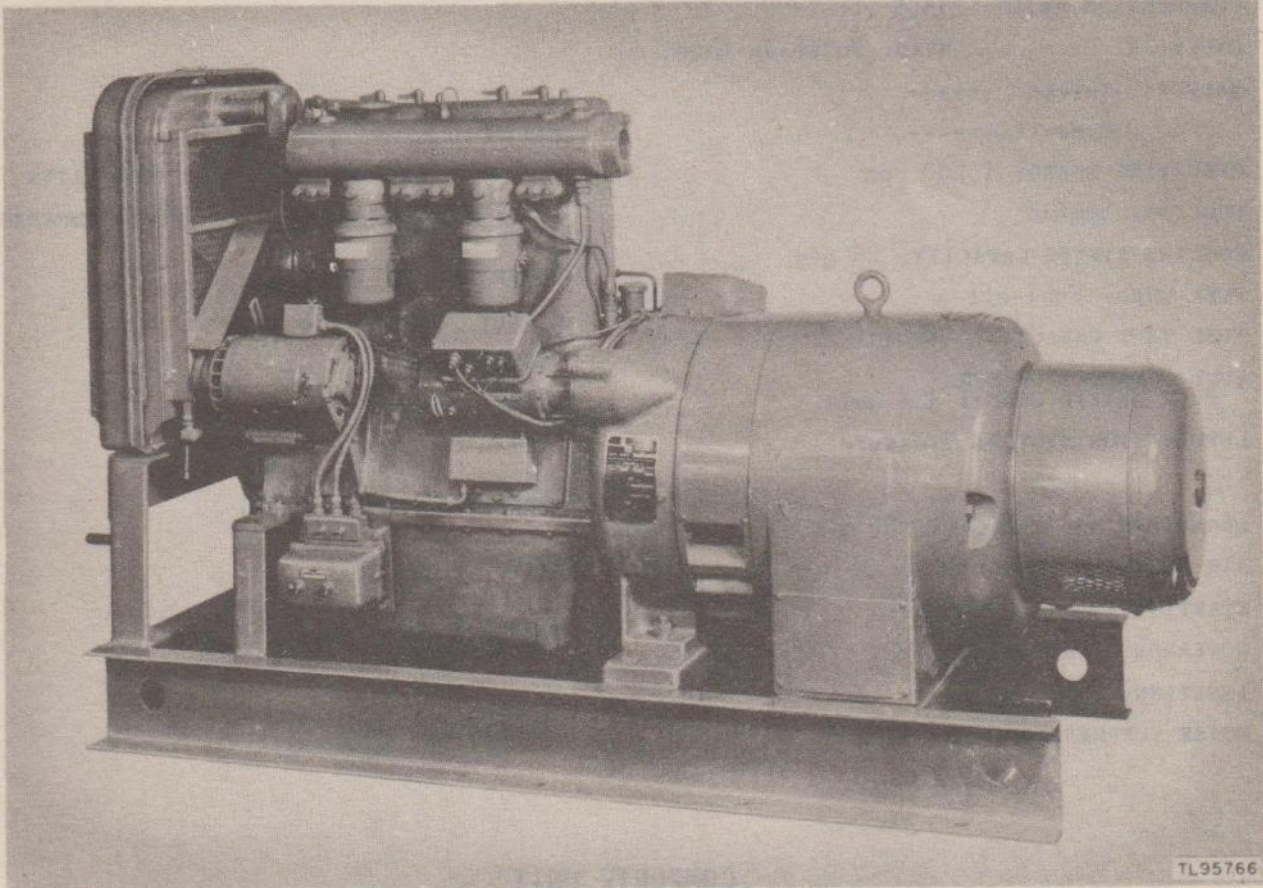
INSTRUCTIONAL LITERATURE TM 11-970	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-205B

STATUS: SEE BELOW *

POWER UNIT

PE-207-A

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-207-A**

Power Unit PE-207-A is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting Diesel engine, directly connected to an a-c generator.

The engine is rated 34 horsepower at 1,200 revolutions per minute, and consumes approximately 1.6 gallons of fuel per hour at rated load.

The generator is rated at 15 kilowatts, 60 cycles, three phase, 120/208 volts, 90/52 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-207-A

ENGINE CHARACTERISTICS

MAKE: Hill (Diesel)
 MODEL: 4R
 RATED: 34 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-1/2" STROKE: 5-1/2"
 COMPRESSION RATIO: 15.5 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: -----
 Exhaust: -----
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 28 qts
 FUEL USED: Fuel oil
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.6 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 30 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric 24 volt
 GOVERNOR: Mechanical
 IGNITION: Compression
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL: 12G342
 TYPE OF GENERATOR: A-c

 RATING:
 15 KW 15,000 WATTS
 120/208 VOLTS 90/52 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 92" WIDTH: 30" HEIGHT: 51"
 WEIGHT: (NET) 3,000 lb WEIGHT: (CRATED) 4,000 lb

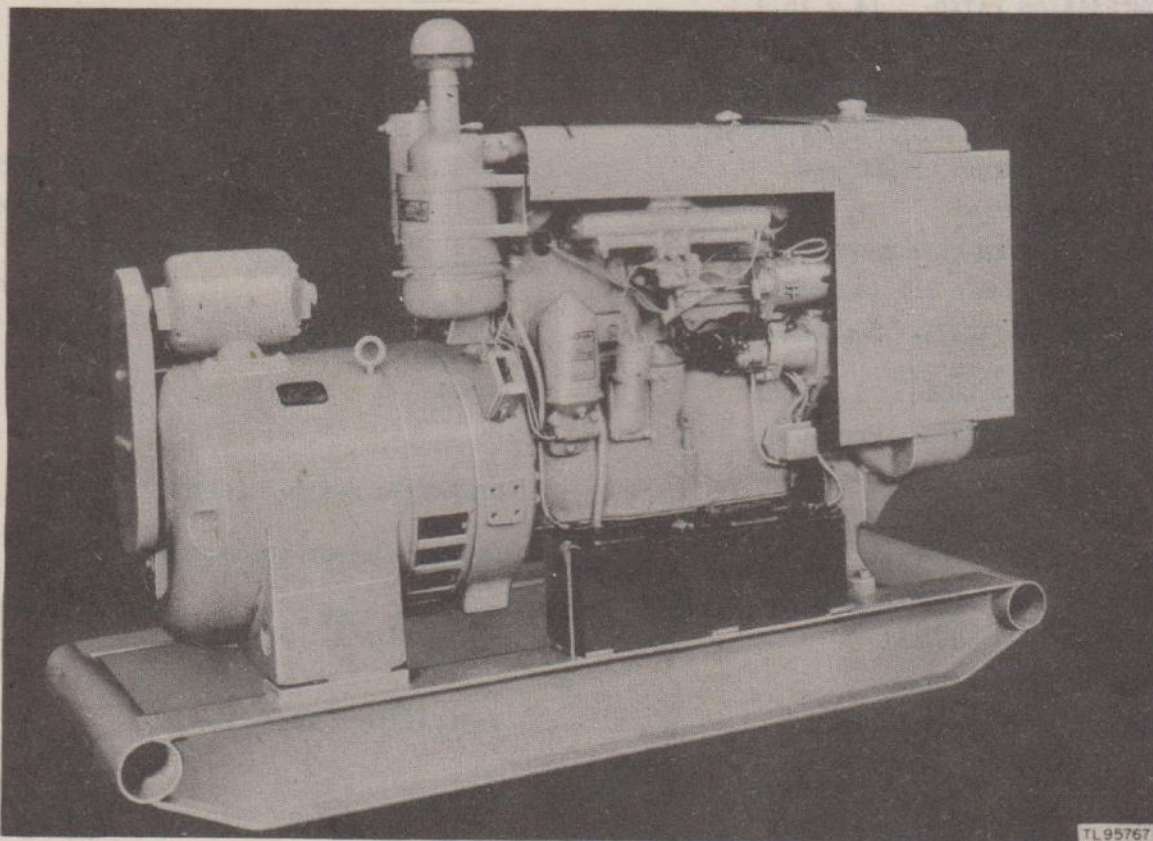
<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4600-207A/B1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Plant Engineering Agency</p>
	<p>STOCK NO. 3H4600-207A</p>

STATUS: SEE BELOW *

POWER UNIT

PE-207-B

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-207-B**

Power Unit PE-207-B is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting (on gasoline) Diesel engine, directly connected to an a-c generator.

The engine is rated 46 horsepower at 1,200 revolutions per minute, and consumes approximately 1.75 gallons of fuel per hour at rated load.

The generator is rated at 15 kilowatts, 60 cycle, 3-phase, 200 volts, 54 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-207-B

ENGINE CHARACTERISTICS

MAKE: International Harvester (Diesel)
MODEL: UD-9
RATED: 46 HP @ 1,200 rpm
CYLINDERS: 4 **BORE:** 4.4" **STROKE:** 5.5"
COMPRESSION RATIO: 14.2 to 1
CYCLE: 4 **HEAD:** Valve-in-head
VALVES: Intake: Nickel steel
 Exhaust: Silchrome steel
OPERATING SPEED: 1,200 rpm
COOLING: Liquid
COOLING SYSTEM CAPACITY: 52 qts
FUEL USED: Fuel oil (gasoline-starting)
FUEL TANK CAPACITY: Separate
FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.75 gals
LUBRICATION SYSTEM: Pressure

CRANKCASE OIL CAPACITY: 11 qts
AIR CLEANER: Oil-bath
STARTING: Electric-starting, on gasoline
GOVERNOR: Mechanical
IGNITION: Magneto
NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
MODEL: 12 G 668
TYPE OF GENERATOR: A-c

RATING:
 15 KW 15,000 WATTS
 200 VOLTS 54 AMPERES

POWER FACTOR: 80%
CYCLE: 60
PHASE: 3
WIRES: 3

OPERATING SPEED: 1,200
DRIVE: Direct-connected

NUMBER & TYPE OF BEARINGS: 2 ball

INSULATION: Class A

COMPLETE UNIT

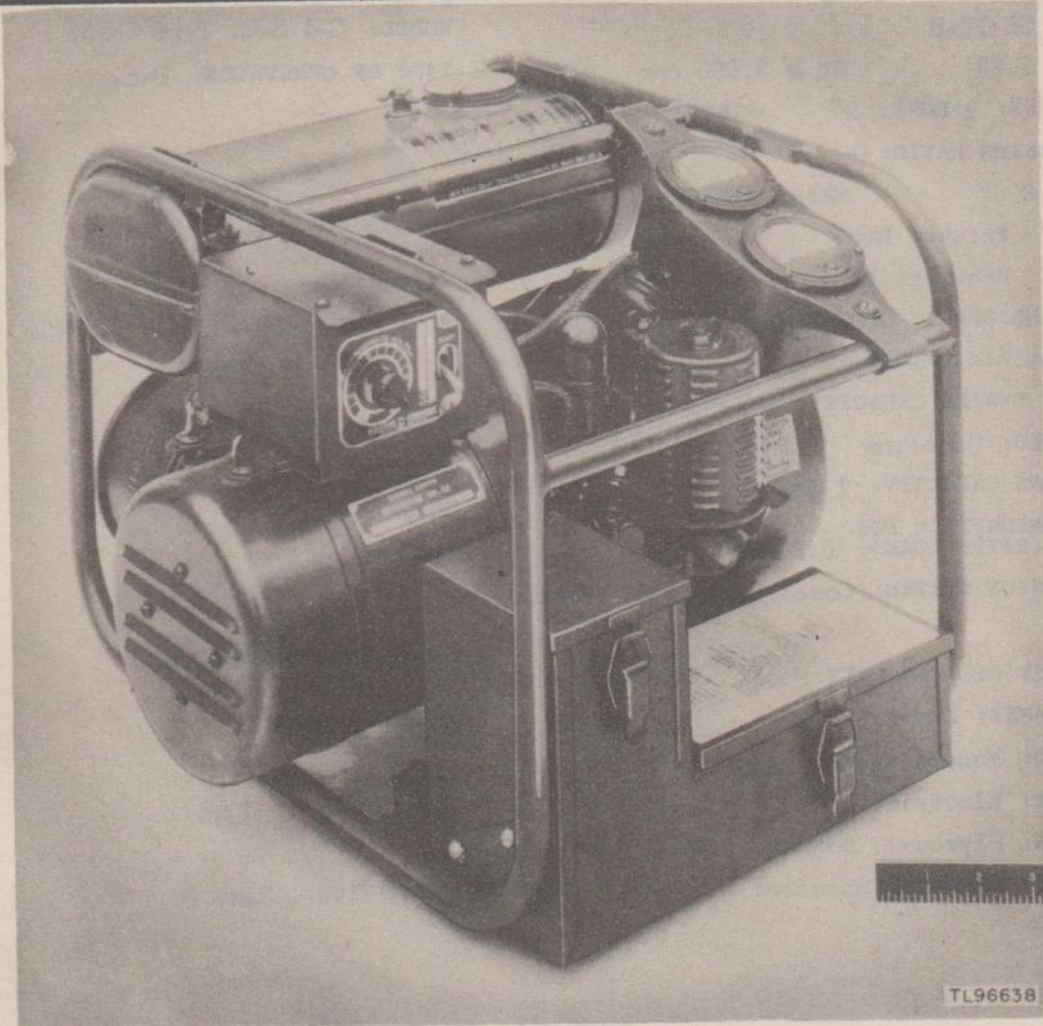
LENGTH: 83" **WIDTH:** 30" **HEIGHT:** 61"
WEIGHT: (NET) 3,867 lb **WEIGHT: (CRATED)** 5,900 lb

INSTRUCTIONAL LITERATURE TM 11-970, Revised (when published) Instruction Book, stock No. 3H4600-207B/B1	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-207B

STATUS: Standard

POWER UNIT

PE-210-B

**POWER UNIT PE-210-B**

Power Unit PE-210-B is an electric generating set consisting of a 1-cylinder, 2-cycle, air-cooled, manual-starting (rope), gasoline engine directly connected to a d-c generator of the shunt-wound, open, 4-pole type.

The engine is rated 1.25 horsepower at 3,600 revolutions per minute and consumes approximately 0.2 gallon of fuel per hour at rated load.

The generator is rated at 450 watts, 15 volts, 30 amperes direct current, and can be used to charge 6- or 12-volt storage batteries.

While the principal application of this power unit is the furnishing of power for charging storage batteries, it may also be incorporated as an aid in starting larger units in subzero temperatures.

POWER UNIT PE-210-B

ENGINE CHARACTERISTICS

MAKE: Jacobsen Mfg Co, (gasoline)
 MODEL: GE-12-B
 RATED: 1.25 HP @ 3,600 rpm
 CYLINDERS: 1 BORE: 2" STROKE: 1-1/2"
 COMPRESSION RATIO: -----
 CYCLE: 2 HEAD: Ported
 VALVES: Intake: None
 Exhaust: None
 OPERATING SPEED: 3,600 rpm
 COOLING: Air-cooled
 COOLING SYSTEM CAPACITY: -----
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.2 gal
 LUBRICATION SYSTEM: Gasoline and oil mixed

 CRANKCASE OIL CAPACITY: None
 AIR CLEANER: Dry-type
 STARTING: Manual (rope)
 GOVERNOR: Electric
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Electric Motors & Specialty Co
 MODEL: G-1 S.C. Type GN-52
 TYPE OF GENERATOR: D-c,

 RATING:
 0.450 KW 450 WATTS
 15 VOLTS 30 AMPERES

 POWER FACTOR: -----
 CYCLE: -----
 PHASE: -----
 WIRES: 2

 OPERATING SPEED: 3,600

 DRIVE: Direct

 NUMBER & TYPE
 OF BEARINGS: 1 ball

 INSULATION: Class A

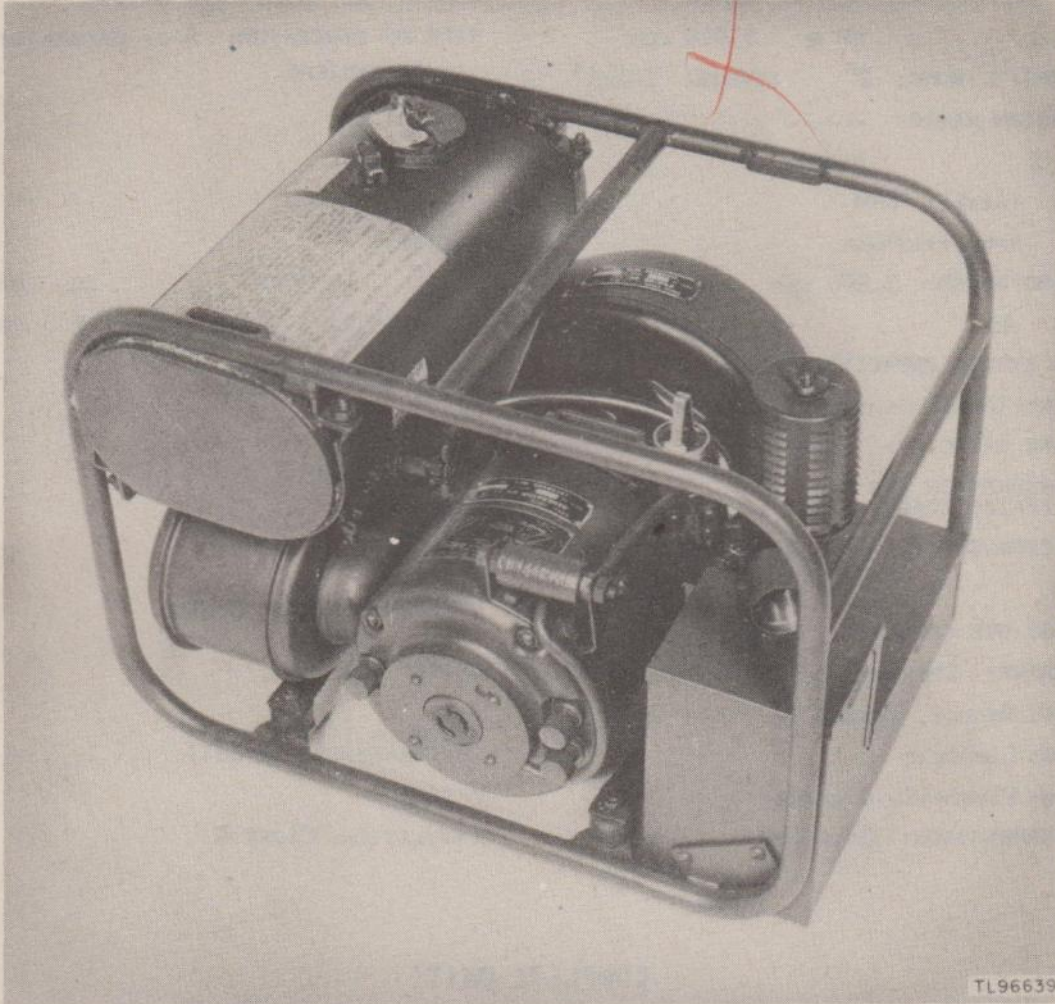
COMPLETE UNIT

LENGTH: 17-3/4" WIDTH: 13-3/4" HEIGHT: 12-13/16"
 WEIGHT: (NET) 61 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-947	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-210-()

STATUS: Standard

POWER UNIT

PE-214-B**POWER UNIT PE-214-B**

Power Unit PE-214-B is an electric generating set consisting of a 1-cylinder, 2-cycle, air-cooled, manual-starting (rope), gasoline engine, directly connected to an a-c generator of the permanent magnet, self-exciting type.

The engine is rated 1 horsepower at 3,600 revolutions per minute and consumes approximately 0.15 gallon of fuel per hour at rated load.

The generator is rated at 300 watts, 60 cycles, single phase, 120/240 volts, 2.6/1.3 amperes at 100 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets SCR-237, SCR-634, and SCR-648; Radio Transmitting Equipment AN/CRN-8; and Public Address Set AN/TIQ-3.

POWER UNIT PE-214-B

ENGINE CHARACTERISTICS

MAKE: Jacobsen Mfg Co (gasoline)
 MODEL: J-100 (Modified) SC-GE-12
 RATED: 1 HP @ 3,600 rpm
 CYLINDERS: 1 BORE: 2" STROKE: 1-1/2"
 COMPRESSION RATIO: -----
 CYCLE: 2 HEAD:
 VALVES: Intake: None
 Exhaust: None
 OPERATING SPEED: 3,600 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: None
 FUEL USED: Gasoline and oil, mixed
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.15 gal
 LUBRICATION SYSTEM: Oil mixed with gas

 CRANKCASE OIL CAPACITY: None
 AIR CLEANER: Staynew
 STARTING: Manual, (rope)
 GOVERNOR: Electric
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Electric Motors & Specialty Co
 MODEL: A1; S.C. Type GN-51B
 TYPE OF GENERATOR: A-c, permanent-magnet, self-excited

 RATING:
 0.3 KW 300 WATTS
 120/240 VOLTS 2.6/1.3 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: Single
 WIRES: 2

 OPERATING SPEED: 3,600
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 18-5/16" WIDTH: 14" HEIGHT: 10-7/8"
 WEIGHT: (NET) 39-3/4 lb WEIGHT: (CRATED) 86-3/4 lb
 TYPE OF HOUSING: Open

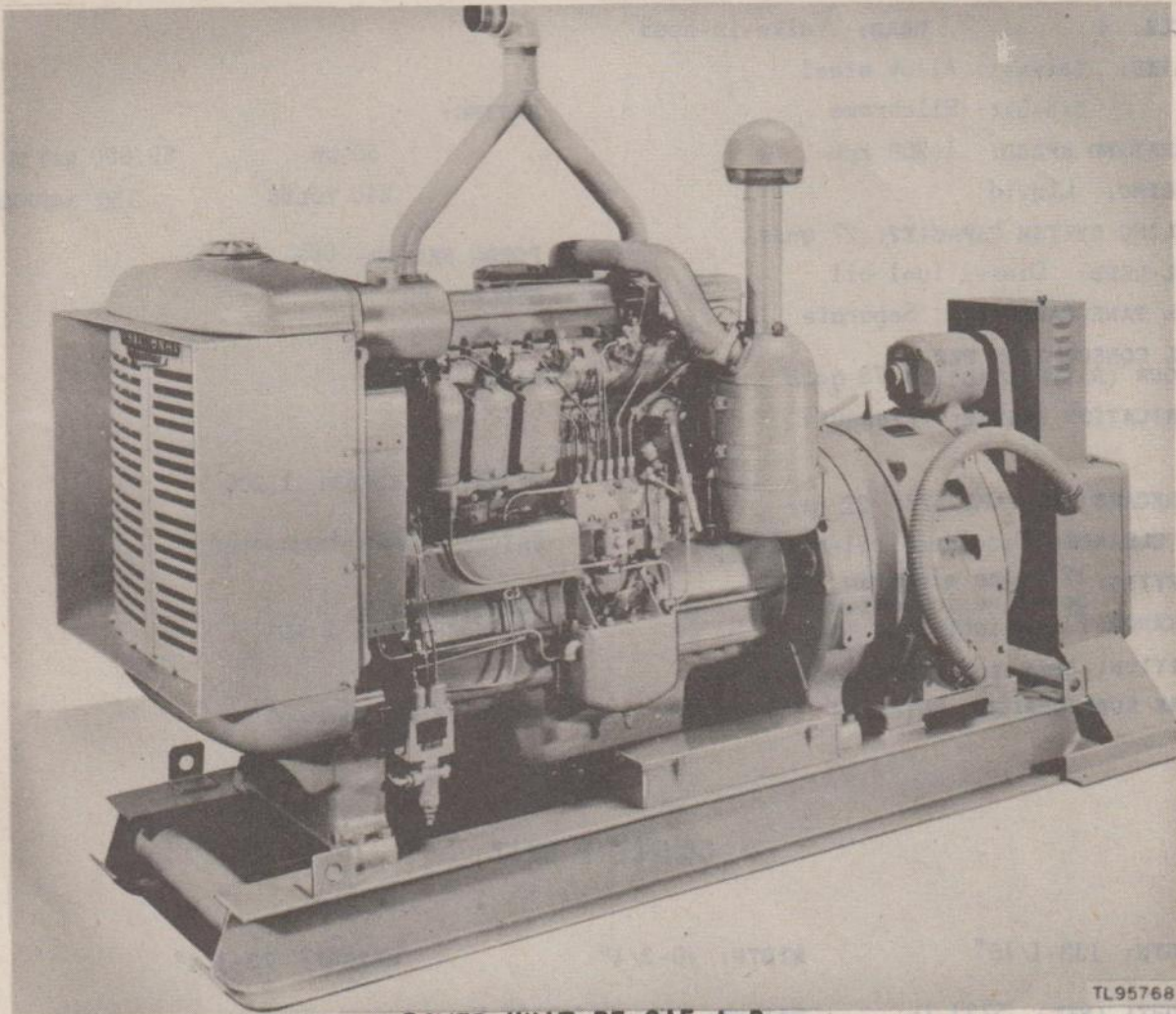
INSTRUCTIONAL LITERATURE TM 11-945	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-214B

STATUS: SEE BELOW *

POWER UNIT

PE-215-A,-B

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-215-A,-B

Power Unit PE-215-A, -B is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting (on gasoline) Diesel engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 76 horsepower at 1,200 revolutions per minute, and consumes approximately 4.79 gallons of fuel per hour at rated load.

The generator is rated at 50 kilowatts, 60 cycles, 3-phase, 240 volts, 150 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-215-A, -B

ENGINE CHARACTERISTICS

MAKE: International Harvester (Diesel)
MODEL: UD18
RATED: 76 HP @ 1,200 rpm
CYLINDERS: 6 **BORE:** 4-3/4" **STROKE:** 6-1/2"
COMPRESSION RATIO: 13.67 to 1
CYCLE: 4 **HEAD:** Valve-in-head
VALVES: Intake: Alloy steel
 Exhaust: Silchrome
OPERATING SPEED: 1,200 rpm
COOLING: Liquid
COOLING SYSTEM CAPACITY: 27 gals
FUEL USED: Diesel fuel oil
FUEL TANK CAPACITY: Separate
FUEL CONSUMPTION PER HOUR (RATED LOAD): 4.79 gals
LUBRICATION SYSTEM: Pressure

CRANKCASE OIL CAPACITY: 22 qts
AIR CLEANER: Donaldson oil-bath type
STARTING: 12 volts electric, with gasoline injection
GOVERNOR: Fly-weight type (Bosch)
IGNITION: Magneto, starting only
NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
MODEL: ATI; Frame 953E Form HA 12-G-308
TYPE OF GENERATOR: A-c revolving field separately excited

RATING:
 50 KW 50,000 WATTS
 240 VOLTS 150 AMPERES

POWER FACTOR: 80%
CYCLE: 60
PHASE: 3
WIRES: 4

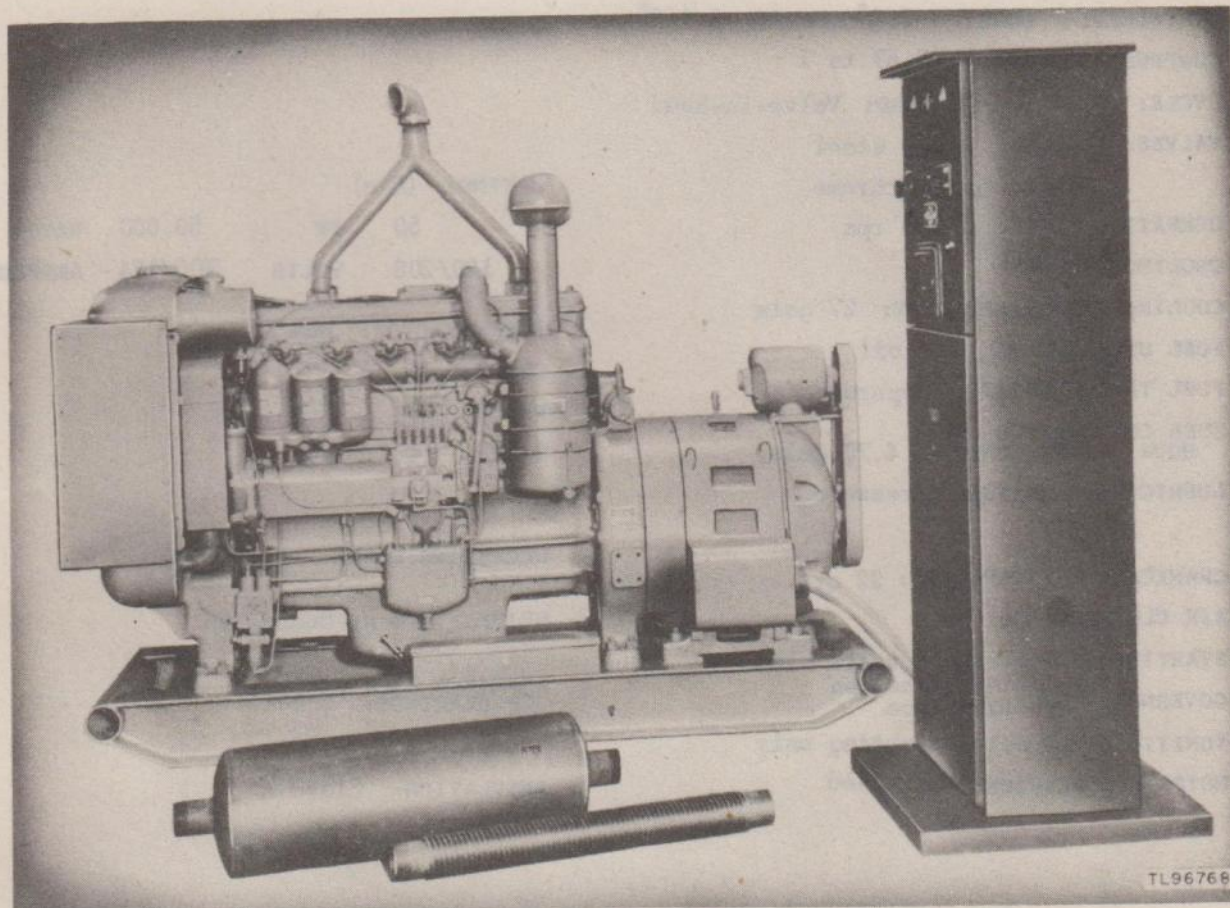
OPERATING SPEED: 1,200
DRIVE: Direct-connected
NUMBER & TYPE OF BEARINGS: 2 ball
INSULATION: Class A

COMPLETE UNIT

LENGTH: 133-1/16" **WIDTH:** 40-3/4" **HEIGHT:** 73-1/4"
WEIGHT: (NET) 5731 lb **WEIGHT: (CRATED)** 8925 lbs

<p>INSTRUCTIONAL LITERATURE Instruction Book for PE-215-A TM 11-941 for PE-215-B (when published)</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Plant Engineering Agency</p>
	<p>STOCK NO. 3H4600-215-A and 215-B</p>

POWER UNIT

PE-215-C**POWER UNIT PE-215-C**

Power Unit PE-215-C is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting (with gasoline injection) Diesel engine directly connected to an a-c generator.

The engine is rated 76 horsepower at 1,200 revolutions per minute and consumes approximately 4.79 gallons of fuel per hour at rated load.

The generator is rated at 50 kilowatts, 60 cycles, 3-phase, 120/208 volts, 300/174 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set AN/CPS-1.

POWER UNIT PE-215-C

ENGINE CHARACTERISTICS

MAKE: International Harvester Co.
 MODEL: UD-18
 RATED: 76 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-3/4" STROKE: 6-1/2"
 COMPRESSION RATIO: 13.67 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 27 gals
 FUEL USED: Diesel fuel oil
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 4.79 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 22 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric, 12 volts with gasoline injection
 GOVERNOR: Flyweight type
 IGNITION: Magneto, starting only
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: International Harvester Co.
 MODEL: UD-18
 TYPE OF GENERATOR: A-c

 RATING: (A-c)
 50 KW 50,000 WATTS
 120/208 VOLTS 300/174 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200 rpm
 DRIVE: Direct-connected

 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 133-1/16" WIDTH: 40-3/4" HEIGHT: 73-1/4"
 WEIGHT: (NET) 5,731 lb WEIGHT: (CRATED) 8,925 lb

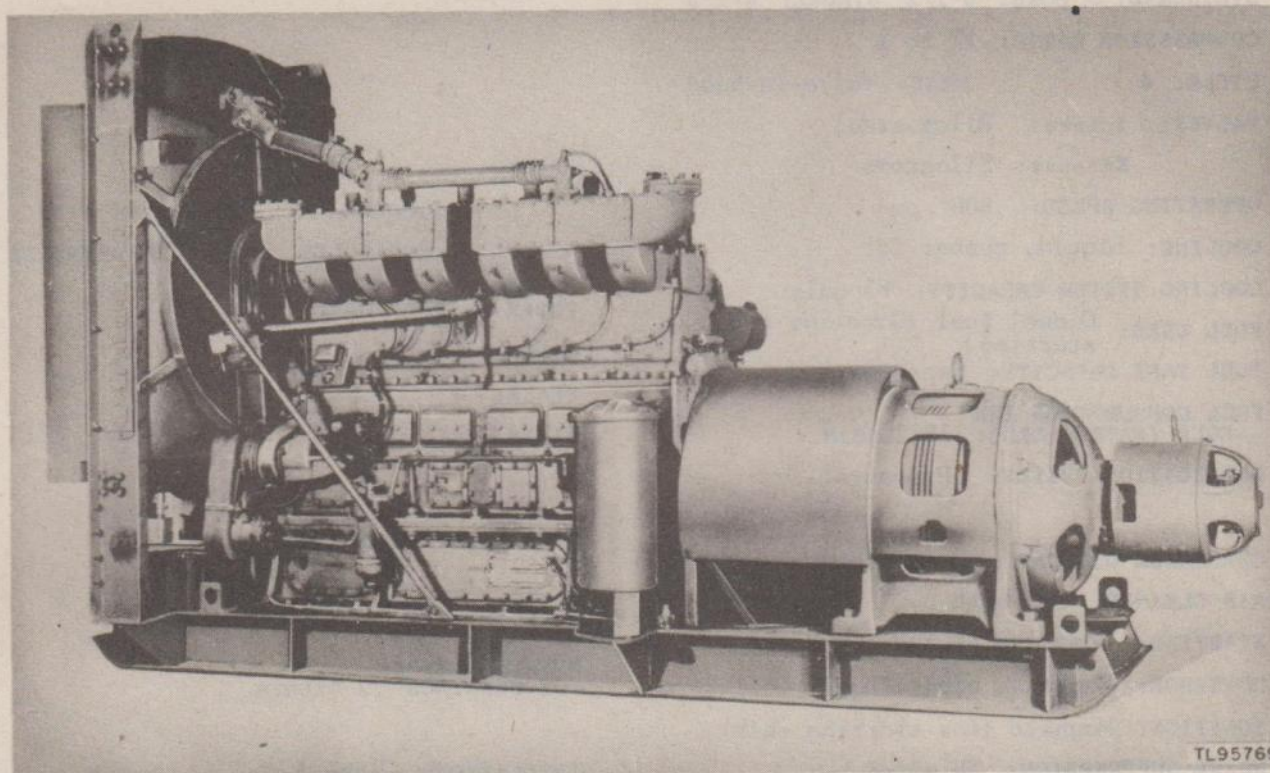
INSTRUCTIONAL LITERATURE TM 11-941C	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-215C

STATUS: SEE BELOW *

POWER UNIT

PE-220-A-B

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-220-A, -B**

Power Unit PE-220-A, -B is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, gasoline-engine-starting semi-Diesel engine, directly connected to an a-c generator of the separately excited type.

The engine is rated 225 horsepower at 900 revolutions per minute, and consumes approximately 12.2 gallons of fuel per hour at rated load.

The generator is rated at 100 kilowatts, 60 cycles, 3-phase, 240 volts, 300 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Limited supply available for issue. No more to be procured.

POWER UNIT PE-220-A, -B

ENGINE CHARACTERISTICS

MAKE: Waukesha. Hesselman (Semi-Diesel)
 MODEL: 6L RHU
 RATED: 225 HP @ 900 rpm
 CYLINDERS: 6 BORE: 8-1/2" STROKE: 8-1/2"
 COMPRESSION RATIO: 17 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 900 rpm
 COOLING: Liquid, pusher fan
 COOLING SYSTEM CAPACITY: 65 gals
 FUEL USED: Diesel fuel (Gasoline for starting)
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 12.2 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 37 gals
 AIR CLEANER: Oil-bath
 STARTING: Gasoline engine
 GOVERNOR: Waukesha centrifugal
 IGNITION: Magneto (for starting only)
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Westinghouse Electric Co
 MODEL: G-Type. Frame 28-10-S
 TYPE OF GENERATOR: A-c separately excited

 RATING:
 100 KW 100,000 WATTS
 240 VOLTS 300 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 3

 OPERATING SPEED: 900

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 2 sleeve

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 192-7/8" WIDTH: 62-5/8" HEIGHT: 107"
 WEIGHT: (NET) 18,670 lb WEIGHT: (CRATED) 19,300 lb

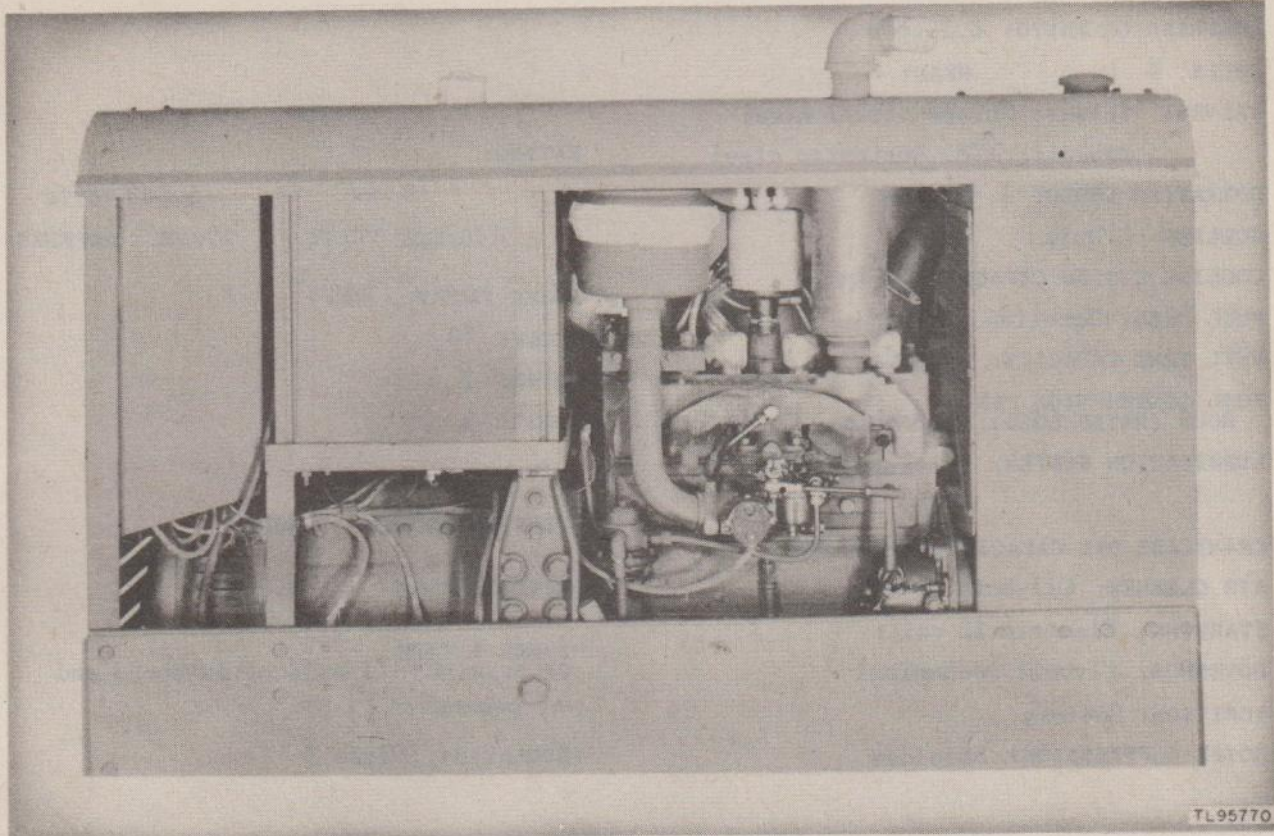
INSTRUCTIONAL LITERATURE Instruction Book	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-220A and 220B

STATUS: SEE BELOW *

POWER UNIT

PE-235-A

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PE-235-A**

Power Unit PE-235-A is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator.

The engine is rated 17 horsepower at 1,800 revolutions per minute, and consumes approximately 1.3 gallon of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 110/220 volts, 57/28.5 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

*Limited supply available for issue. No more to be procured.

POWER UNIT PE-235-A

ENGINE CHARACTERISTICS

MAKE: Continental Engine Co (gasoline)
 MODEL: Y-91
 RATED: 17 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-7/8" STROKE: 3-1/2"
 COMPRESSION RATIO: 6.1 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel steel
 Exhaust: XCA Austentic steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 12 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 6 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.3 gals
 LUBRICATION SYSTEM: Pressure feed

 CRANKCASE OIL CAPACITY: 4-1/2 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric 12 volts
 GOVERNOR: Flyball mechanical
 IGNITION: Battery
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: D.W. Onan & Sons
 MODEL: 261
 TYPE OF GENERATOR: A-c

 RATING:
 5 KW 5,000 WATTS
 110/220 VOLTS 57/28.5 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

 OPERATING SPEED: 1,800

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 1 ball on outboard end of generator
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 49-1/2" WIDTH: 22-1/2" HEIGHT: 36-1/4"
 WEIGHT: (NET) 1,500 lb WEIGHT: (CRATED)

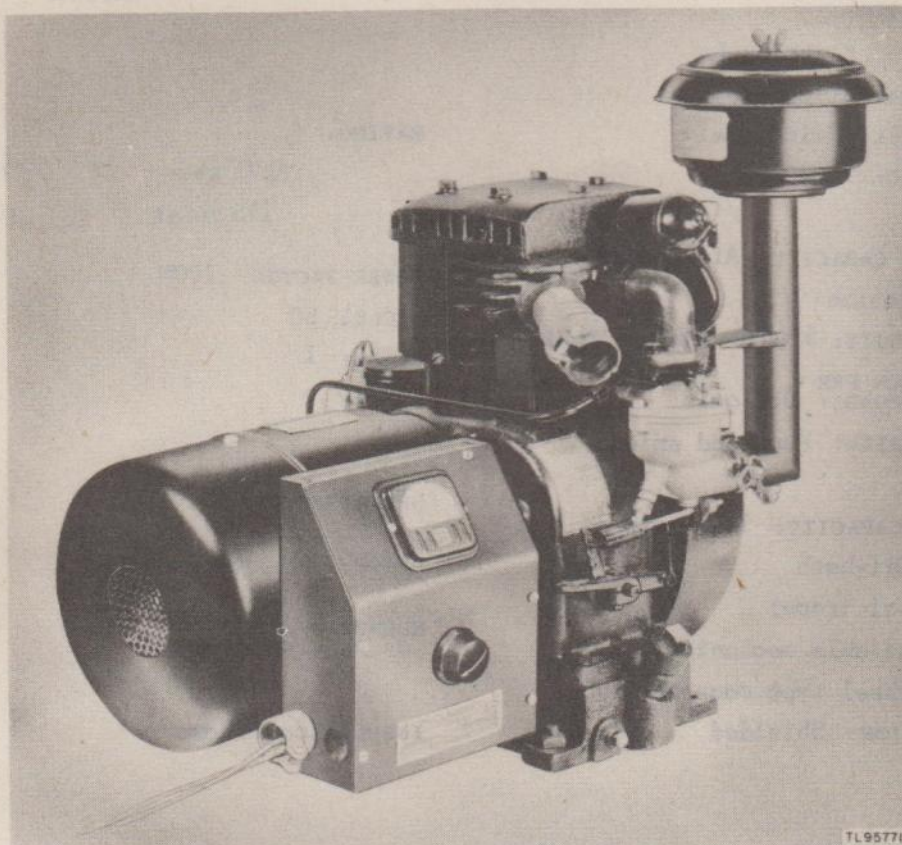
INSTRUCTIONAL LITERATURE TM 11-972	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4600-235-A

STATUS: SEE BELOW *

POWER UNIT

PE-236-A

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PE-236-A

Power Unit PE-236-A is an electric generating set consisting of a single-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope) gasoline engine, directly connected to an a-c generator of the adjustable-voltage, integral-exciter type.

The engine is rated 2.0 horsepower at 1,800 revolutions per minute and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator is rated at 750 watts, 60 cycles, single phase, 115 volts, 6.5 amperes at 100 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PE-236-A

ENGINE CHARACTERISTICS

MAKE: Briggs & Stratton (gasoline)
 MODEL: BP
 RATED: 2.0 HP @ 1,800 rpm
 CYLINDERS: 1 BORE: 2-5/8" STROKE: 2-5/8"
 COMPRESSION RATIO:
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,800 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals (remote tank)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.5 gals
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1-1/2 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Adjustable mechanical
 IGNITION: Flywheel type magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Atlas Aircraft Products Co
 MODEL: (741)
 TYPE OF GENERATOR: A-c, adjustable voltage, integral exciter

 RATING:
 0.75 KW 750 WATTS
 115 VOLTS 6.5 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 1,800
 DRIVE: Direct-connected

 NUMBER & TYPE OF BEARINGS: None

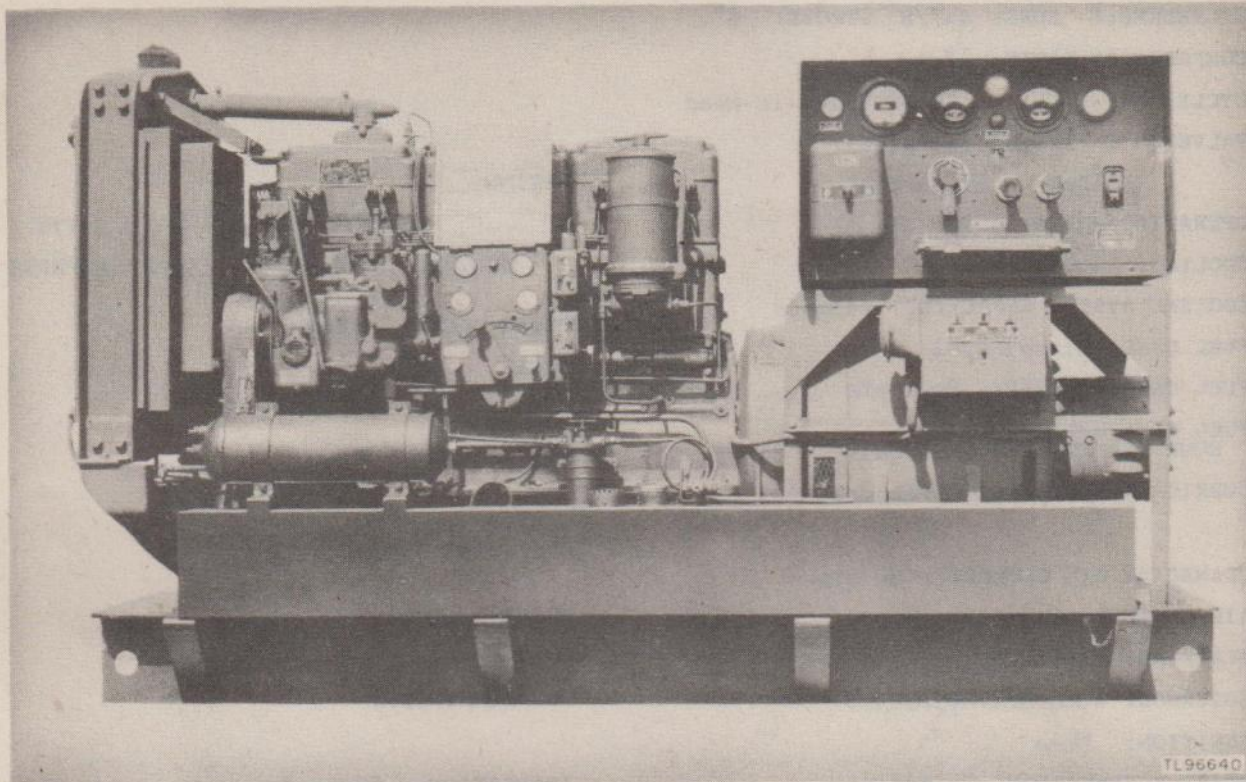
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 20" WIDTH: 14-5/8" HEIGHT: 21-3/4"
 WEIGHT: (NET) 141 lb WEIGHT: (CRATED) 225 lb

<p>INSTRUCTIONAL LITERATURE Instruction Book, stock No. 3H4600-236A/1</p>	<p>SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED</p>
	<p>RESPONSIBLE AGENCY: Plant Engineering Agency</p>
	<p>STOCK NO. 3H4511-236-A</p>

STATUS:	POWER UNIT PE-245-A
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POWER UNIT PE-245-A

Power Unit PE-245-A is an electric generating set consisting of a 6-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting, full-Diesel engine, directly connected to an a-c generator of the revolving field type.

The engine is rated 90 horsepower at 1,200 revolutions per minute, and consumes approximately 3 gallons of fuel per hour at rated load.

The generator is rated at 25 kilowatts, 60 cycles, 3-phase, 120/208 volts, 150/87 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set SCR-615.

POWER UNIT PE-245-A

ENGINE CHARACTERISTICS

MAKE: Cummins Engine Co (Diesel)
 MODEL: HI600
 RATED: 90 HP @ 1,200 rpm
 CYLINDERS: 6 BORE: 4-7/8" STROKE: 6"
 COMPRESSION RATIO: 17 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Alloy steel
 Exhaust: Silchrome
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 24 gals
 FUEL USED: Diesel fuel
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 3 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 20 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Woodward Hydraulic
 IGNITION: None
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Rogers-Diesel & Aircraft Corp
 MODEL: 5-110
 TYPE OF GENERATOR: A-c, revolving-field

 RATING:
 25 KW 25,000 WATTS
 120/208 VOLTS 150/87 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS:

 INSULATION: Class A

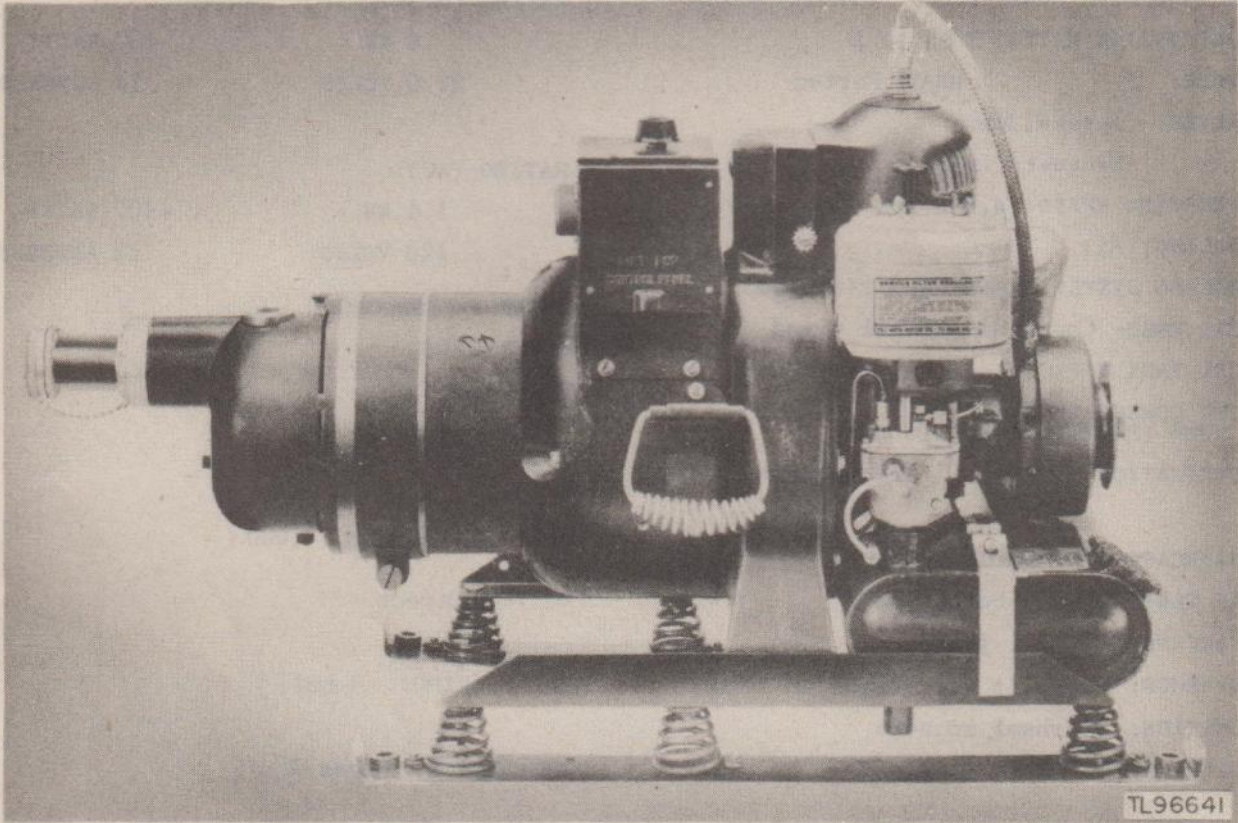
COMPLETE UNIT

LENGTH: 104" WIDTH: 36-1/2" HEIGHT: 62-1/2"
 WEIGHT: (NET) 5,900 lb WEIGHT: (CRATED) 6,750 lb

INSTRUCTIONAL LITERATURE TM 11-930	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4600-245A

POWER UNIT

PU-6/TPS-1



POWER UNIT PU-6/TPS-1

Power Unit PU-6/TPS-1 is an electric generating set consisting of a 1-cylinder, 2-cycle, air-cooled, manual-starting (rope), gasoline engine, directly connected to an a-c, d-c generator of the dual-winding type.

The engine is rated 4.5 horsepower at 4,000 revolutions per minute, and consumes approximately 0.6 gallon of fuel per hour at rated load.

The generator has two windings; 1.4 kilowatts at 400 cycles, single phase, 120 volts, 12 amperes, 100% power factor and 400 watts at 27 volts 14 amperes direct current.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets AN/CPN-2, AN/TPS-1, and AN/TPS-3; and Transmitting Set AN/TPT-1.

POWER UNIT PU-6/TPS-1

ENGINE CHARACTERISTICS

MAKE: Homelite Corp (gasoline)
 MODEL: HFU-AD
 RATED: 4.5 HP @ 4,000 rpm
 CYLINDERS: 1 BORE: 2-3/8" STROKE: 2-1/2"
 COMPRESSION RATIO: 5.85 to 1
 CYCLE: 2 HEAD: Ported
 VALVES: Intake: None
 Exhaust: None
 OPERATING SPEED: 4,000 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline and oil mixed
 FUEL TANK CAPACITY: 1 gal
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.6 gal
 LUBRICATION SYSTEM: Oil and gasoline mixed

CRANKCASE OIL CAPACITY: None
 AIR CLEANER: Oil-bath type
 STARTING: Manual, (rope)
 GOVERNOR: Flyball, mechanical
 IGNITION: Flywheel, magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Homelite Corp
 MODEL: Dual-voltage
 TYPE OF GENERATOR: A-c,d-c, dual-winding
 RATING (DC):
 .4 KW 400 WATTS
 27.0 VOLTS 14 AMPERES

RATING (AC):
 1.4 KW 1400 WATTS
 120 VOLTS 12 AMPERES

POWER FACTOR: 100%
 CYCLE: 400
 PHASE: 1
 WIRES: 2

OPERATING SPEED: 4,000
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1 ball
 INSULATION: Class A

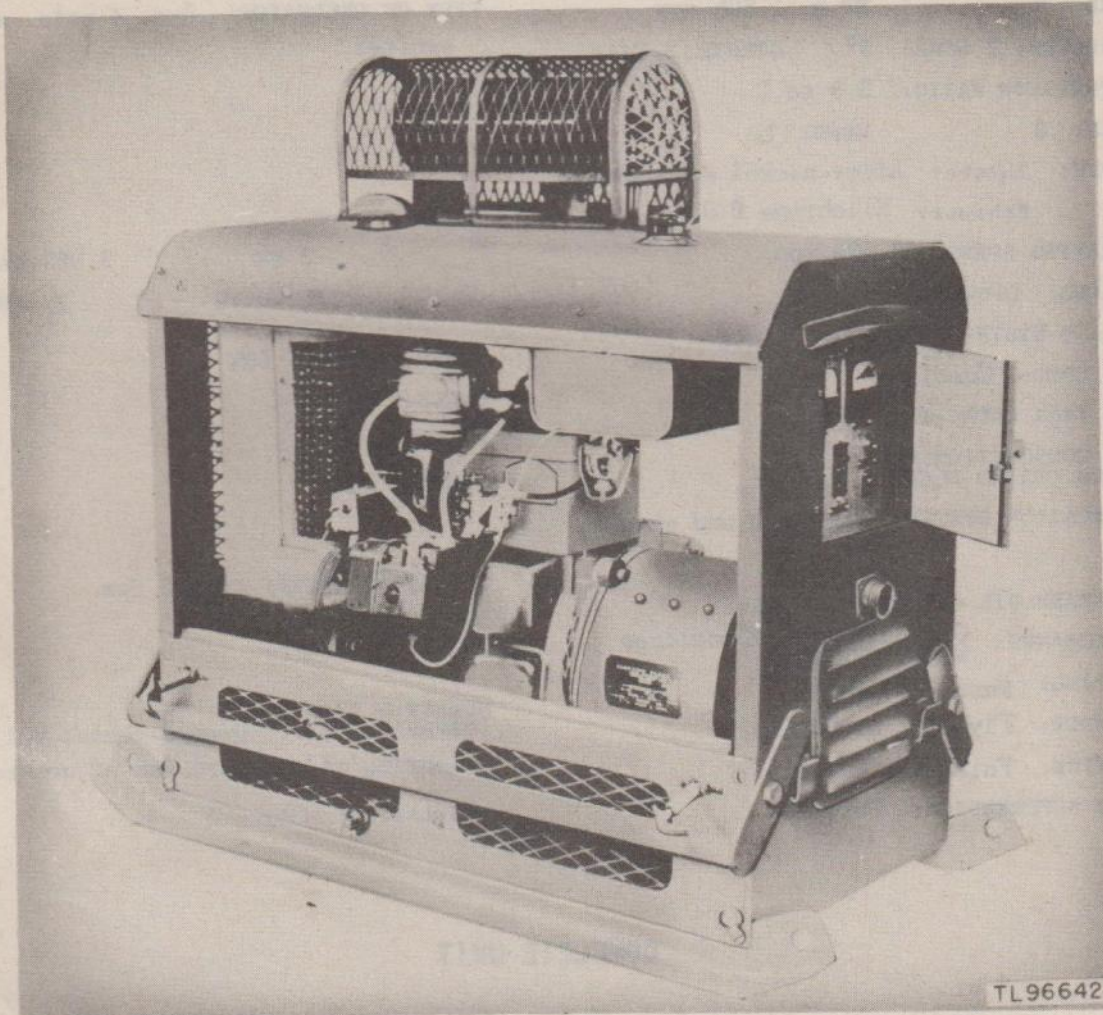
COMPLETE UNIT

LENGTH: WIDTH: HEIGHT:
 WEIGHT: (NET) 135 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-933	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO.

STATUS: Limited standard

POWER UNIT

PU-8/TTQ-1**POWER UNIT PU-8/TTQ-1**

Power Unit PU-8/TTQ-1 is an electric generating set consisting of a 2-cylinder, 4-cycle, L-head, liquid-cooled, manual-starting, (crank) gasoline engine, directly connected to an a-c generator of the self-exciting type.

The engine is rated 7 horsepower, at 1,800 revolutions per minute, and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator is rated at 3 kilowatts, 60 cycle, single phase, 115 volts, 27 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Operations Center AN/TTQ-1.

POWER UNIT PU-8/TTQ-1

ENGINE CHARACTERISTICS

MAKE: D.W.Onan & Sons (gasoline)
 MODEL: W-3-M-18
 RATED: 7 HP @ 1,800 rpm
 CYLINDERS: 2 BORE: 3" STROKE: 2-3/4"
 COMPRESSION RATIO: 5.5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy nickel steel 0.008
 Exhaust: Silchrome 0.010
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 9 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 3 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.5 gal
 LUBRICATION SYSTEM: Pressure and spray
 CRANKCASE OIL CAPACITY: 6 qts
 AIR CLEANER: Oil-bath type (Donaldson Model 2XB-415)
 STARTING: Manual, (crank)
 GOVERNOR: Flyball, mechanical
 IGNITION: Fairbanks Morse
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

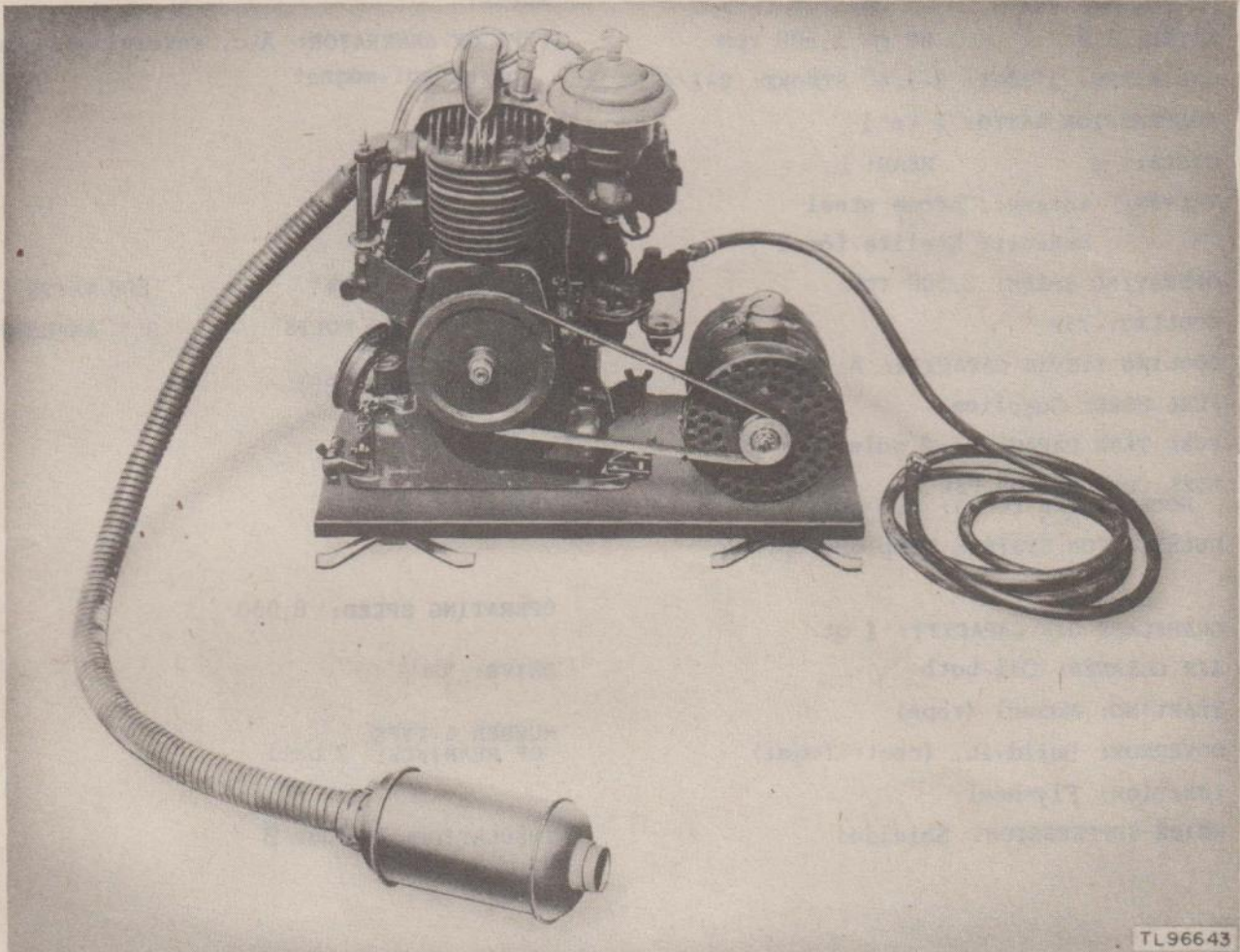
MAKE: D.W.Onan & Sons
 MODEL: W-3-M-18
 TYPE OF GENERATOR: A-c, 4-pole, self-excited
 RATING:
 3 KW 3,000 WATTS
 115 VOLTS 27 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 2
 OPERATING SPEED: 1,800 rpm
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 1 grease-sealed ball bearing on outboard end of generator
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 44" WIDTH: 22" HEIGHT: 33"
 WEIGHT: (NET) 583 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-932	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4512.3

POWER UNIT

PU-9/TPS-2

TL96643

POWER UNIT PU-9/TPS-2

Power Unit PU-9/TPS-2 is an electric generating set consisting of a 1-cylinder, 4-cycle, L-head, air-cooled, manual-starting (rope), gasoline engine, with a belt-driven, a-c generator of the revolving-field, permanent-magnet type.

The engine is rated 1.9 horsepower at 2,500 revolutions per minute and consumes approximately 0.5 gallon of fuel per hour at rated load.

The generator is rated at 800 watts, 115 volts, 8.7 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Set AN/TPS-2.

POWER UNIT PU-9/TPS-2

ENGINE CHARACTERISTICS

MAKE: Lauson Co (gasoline)
 MODEL: TLC-351
 RATED: 1.9 HP @ 2,500 rpm
 CYLINDERS: 1 BORE: 2-1/4" STROKE: 2-1/4"
 COMPRESSION RATIO: 5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome steel
 Exhaust: Stellite faced
 OPERATING SPEED: 2,500 rpm
 COOLING: Air
 COOLING SYSTEM CAPACITY: Air-cooled
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 2 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 0.5 gal
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 1 qt
 AIR CLEANER: Oil-bath
 STARTING: Manual (rope)
 GOVERNOR: Build-in, (centrifugal)
 IGNITION: Flywheel
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL:
 TYPE OF GENERATOR: A-c, revolving-field, permanent-magnet

 RATING:
 .8 KW 800 WATTS
 115 VOLTS 8.7 AMPERES

 POWER FACTOR: 80%
 CYCLE: 400
 PHASE: 1
 WIRES: 2

 OPERATING SPEED: 8,000

 DRIVE: Belt

 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class B

COMPLETE UNIT

LENGTH: 21" WIDTH: 10" HEIGHT: 20"
 WEIGHT: (NET) 66 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-1339, TM 11-1439, and TM 11-1539	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. 3H4531-9

STATUS: SEE BELOW *

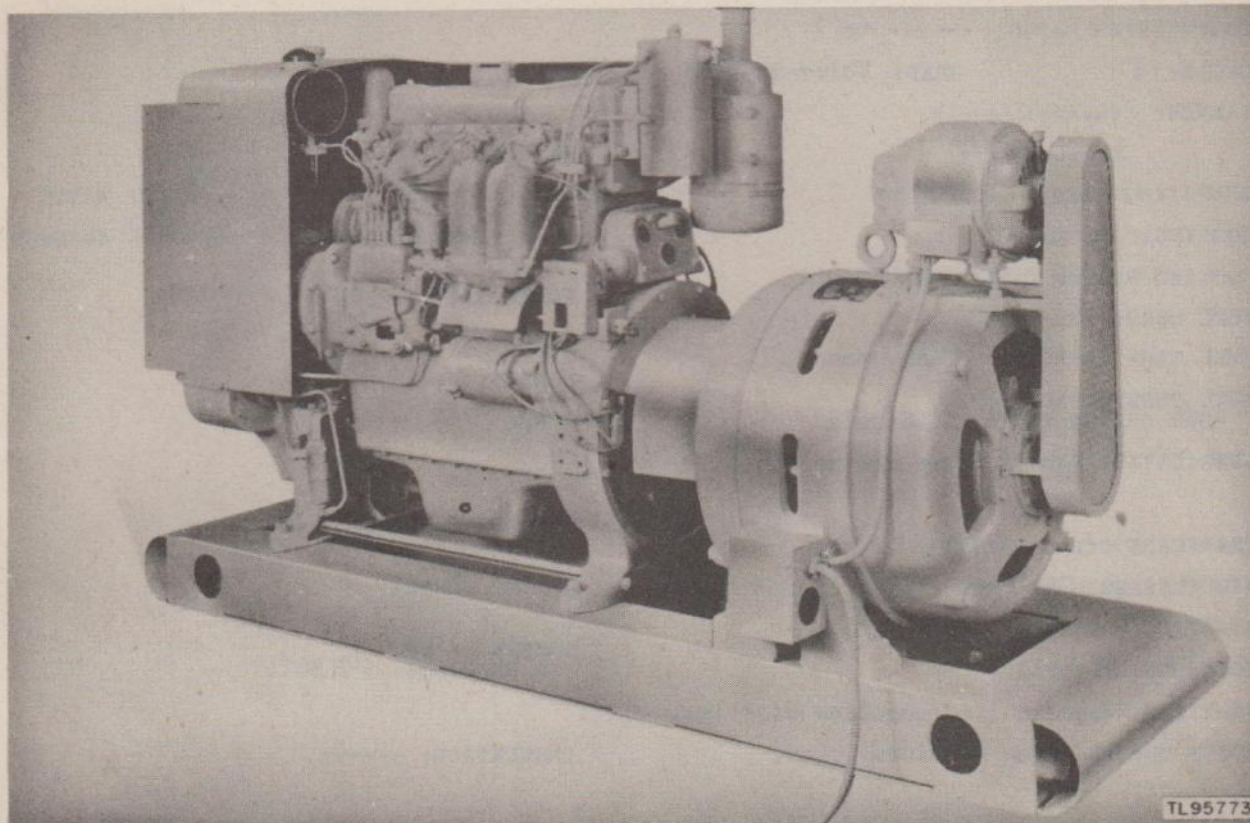
S.C.T.C. MEETING NO.

DATE:

POWER UNIT

PU-19 / FRC

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PU-19/FRC**

Power Unit PU-19/FRC is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, (magneto for gasoline starting) Diesel engine, directly connected to an alternating current generator.

The engine is rated 45.5 horsepower at 1,200 revolutions per minute, and consumes approximately 2.26 gallons of fuel per hour at rated load.

The generator is rated at 20 kilowatts, 60 cycles, single phase, 120/240 volts, 208/104 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue. No more to be procured.

POWER UNIT PU-19/FRC

ENGINE CHARACTERISTICS

MAKE: International Harvester (Diesel)
 MODEL: UD-9
 RATED: 45.5 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 4.4" STROKE: 5.5"
 COMPRESSION RATIO: ----- to 1.
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: -----
 Exhaust: -----
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 52 qts
 FUEL USED: Fuel oil
 FUEL TANK CAPACITY: Underground
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 2.26 gals
 LUBRICATION SYSTEM: Pump and splash

 CRANKCASE OIL CAPACITY: 11 qts
 AIR CLEANER: Oil-bath
 STARTING: Gasoline
 GOVERNOR: Flyball
 IGNITION: Magneto (for gasoline starting)
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Ideal Electric Mfg Co
 MODEL: ZBC
 TYPE OF GENERATOR: A-c

 RATING:
 20 KW 20,000 WATTS
 120/240 VOLTS 20^ø/104 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct
 NUMBER & TYPE
 OF BEARINGS: 2 Ball

 INSULATION: -----

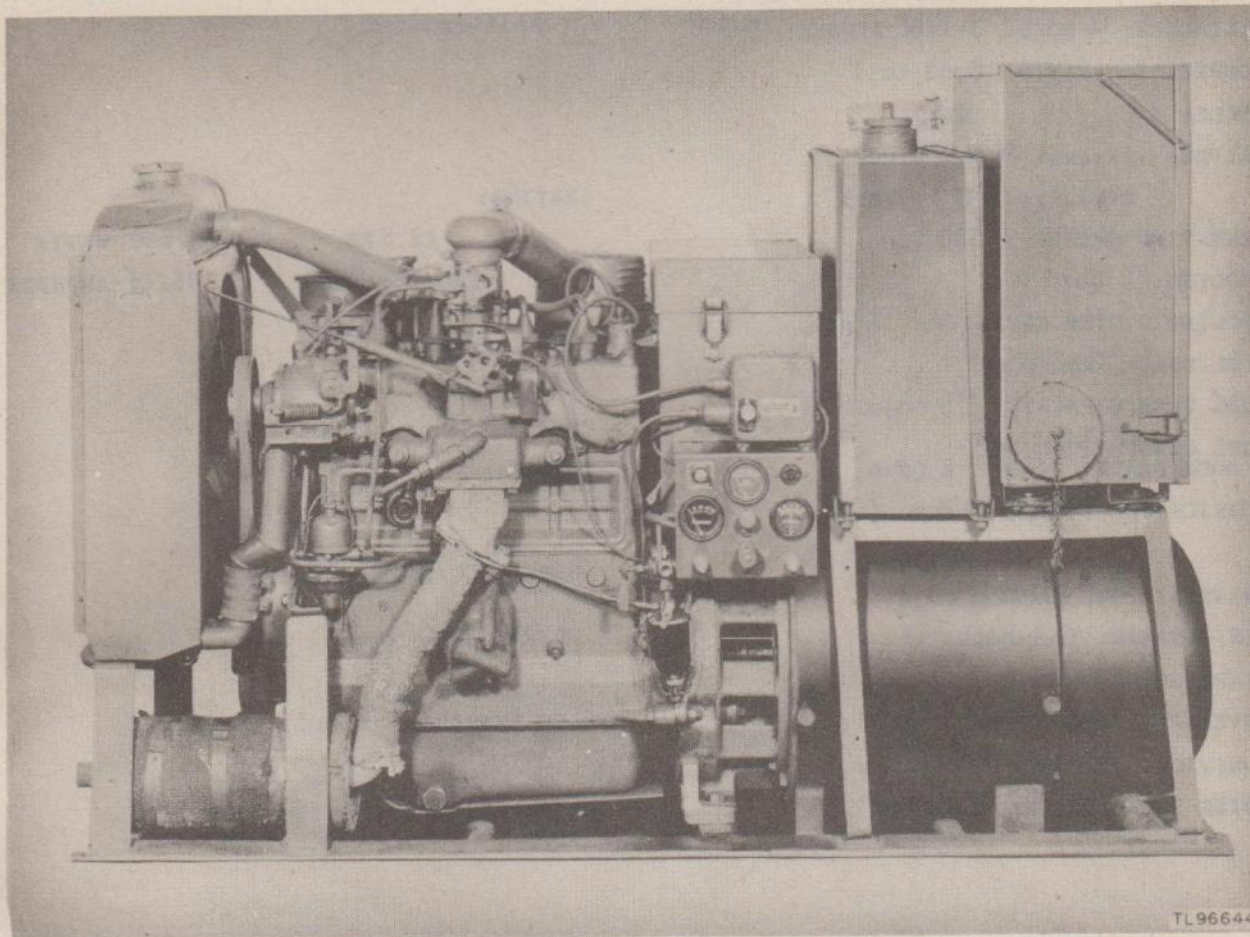
COMPLETE UNIT

LENGTH: 96" WIDTH: 32" HEIGHT: 58-1/2"
 WEIGHT: (NET) 4,200 lb WEIGHT: (CRATED) 5,957 lb

INSTRUCTIONAL LITERATURE TM 11-986 (when published)	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4531-19F

POWER UNIT

PU-26 / U



POWER UNIT PU-26/U

Power Unit PU-26/U is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator of the revolving-field type, self-excited.

The engine is rated at 35 horsepower at 1,800 revolutions per minute, and consumes approximately 2 gallons of fuel per hour at rated load.

The generator is rated at 12.5 kilowatts, 60 cycle, 3-phase, 120/208 volts, and 75/44 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radio Sets AN/CPS-1, SCR-615-B; Radar Set AN/MPG-1.

POWER UNIT PU-26/U

ENGINE CHARACTERISTICS

MAKE: Willys Overland Motor Co
 MODEL: JP 441
 RATED: 35 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 3-1/8" STROKE: 4-3/8"
 COMPRESSION RATIO: 6.48 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: R M C steel
 Exhaust: R M C steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 13 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10 gals
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 2 gals
 LUBRICATION SYSTEM: Force-feed

CRANKCASE OIL CAPACITY: 4
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Flyball mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: F-S-Electric Co
 MODEL: JCC-1
 TYPE OF GENERATOR: A-c, revolving-field, self-excited

RATING:
 12.5 KW 12,500 WATTS
 120/208 VOLTS 75/44 AMPERES

POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

OPERATING SPEED: 1,800

DRIVE: Direct

NUMBER & TYPE OF BEARINGS: 2 ball

INSULATION: Heavy form-var

COMPLETE UNIT

LENGTH: 65" WIDTH: 45" HEIGHT: 32"
 WEIGHT: (NET) WEIGHT: (CRATED) 1,700 lb

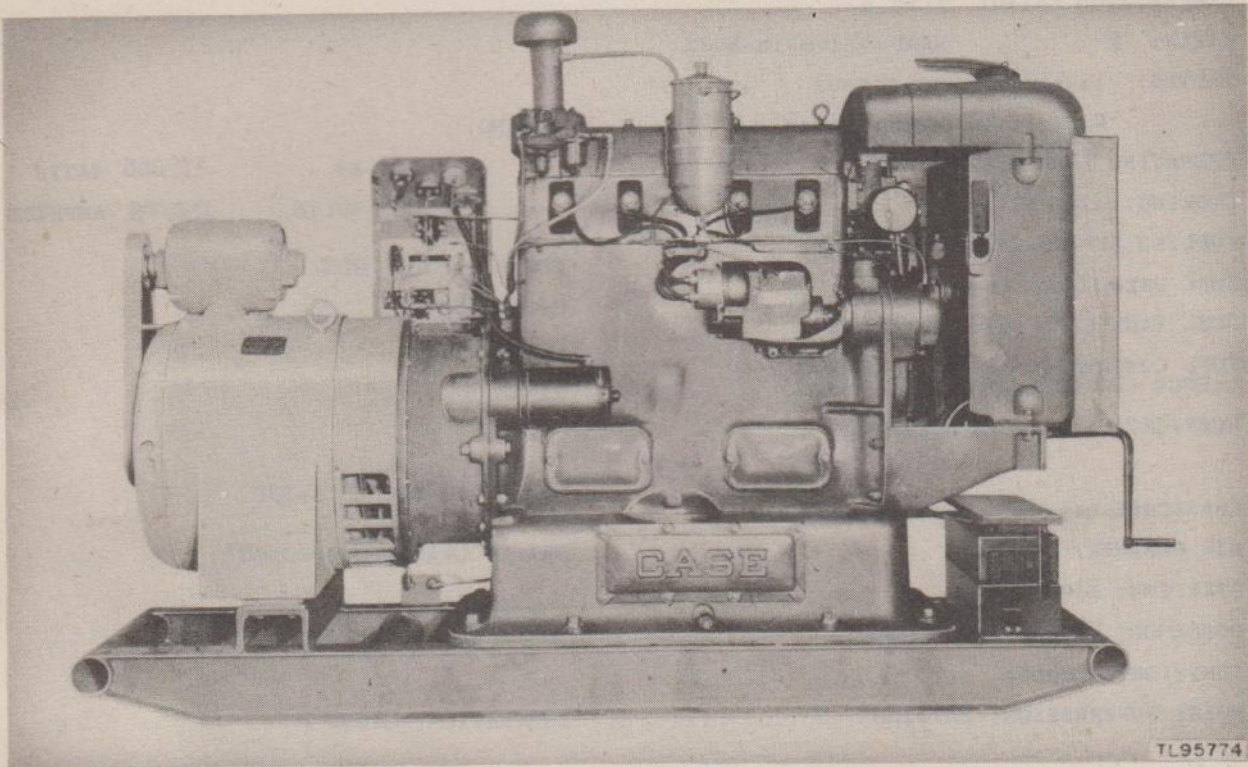
INSTRUCTIONAL LITERATURE TM 11-976	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO. -----

STATUS: SEE BELOW *

POWER UNIT

PU-30/F

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PU-30/F

Power Unit PU-30/F is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator with belt-driven exciter.

The engine is rated 65 horsepower at 1,200 revolutions per minute, and consumes approximately 3.5 gallons of fuel per hour at rated load.

The generator is rated at 15 kilowatts, 60 cycles, single phase, 120/240 volts, 156/78 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

* Available and preferred for issue.

POWER UNIT PU-30/F

ENGINE CHARACTERISTICS

MAKE: J.I. Case Company (gasoline)
 MODEL: LAE
 RATED: 65 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 4-5/8" STROKE: 6"
 COMPRESSION RATIO: 6 to 1
 CYCLE: 4 HEAD: Valve-in-head
 VALVES: Intake: Chrome nickel
 Exhaust: Chrome silicon
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 6l qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: Separate
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 3.5 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 10 gals
 AIR CLEANER: Oil-bath
 STARTING: Electric
 GOVERNOR: Flyball mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: General Electric Co
 MODEL: ASI
 TYPE OF GENERATOR: A-c with belt-driven exciter

 RATING:
 15 KW 15,000 WATTS
 120/240 VOLTS 156/78 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

 OPERATING SPEED: 1,200
 DRIVE: Direct-connected

 NUMBER & TYPE OF BEARINGS: 2 Ball

 INSULATION: Class A

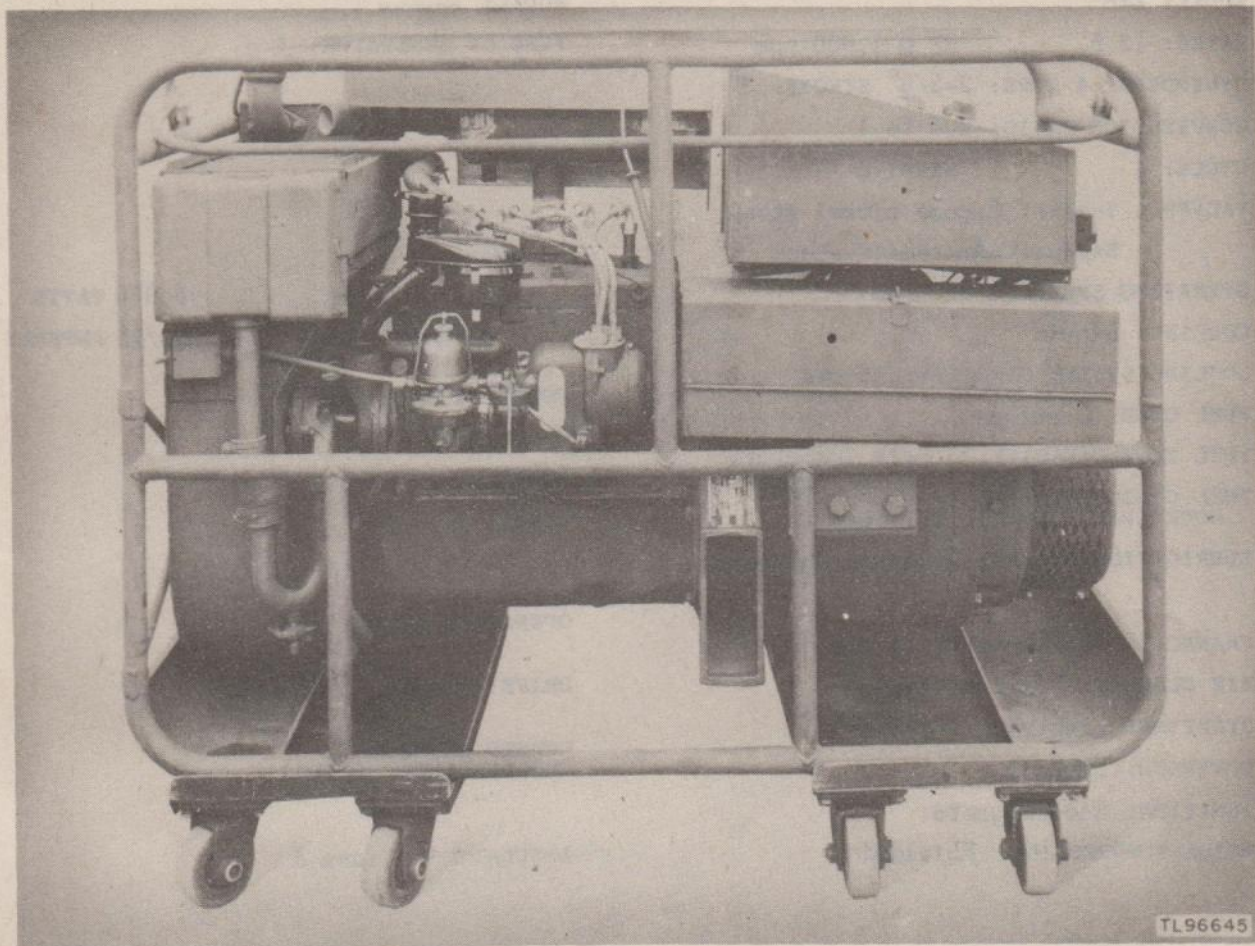
COMPLETE UNIT

LENGTH: 90" Approx WIDTH: 26-1/4" Approx HEIGHT: 60-7/8" Approx
 WEIGHT: (NET) 3,600 lb WEIGHT: (CRATED) 4,650 lb

INSTRUCTIONAL LITERATURE TM 11-944	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4531-30/F

POWER UNIT

PU-32/C



POWER UNIT PU-32/C

Power Unit PU-32/C is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to an a-c generator.

The engine is rated 13.5 horsepower at 1,800 revolutions per minute, and consumes approximately 1.2 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, 3-phase, 120/208 volts, 52/23 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Radio Set AN/CPS-4.

POWER UNIT PU-32/C

ENGINE CHARACTERISTICS

MAKE: Hercules Motor Corp (gasoline)
 MODEL: ZXB
 RATED: 13.5 HP @ 1,800 rpm
 CYLINDERS: 4 BORE: 2-5/8" STROKE: 3"
 COMPRESSION RATIO: 6.3 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel steel
 Exhaust: Austemite steel
 OPERATING SPEED: 1,800 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 16 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals (separate tank)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.2 gals
 LUBRICATION SYSTEM: Pressure and spray

 CRANKCASE OIL CAPACITY: 5 qts
 AIR CLEANER: Oil-bath type
 STARTING: Electric, 6 volts
 GOVERNOR: Flyball
 IGNITION: Wico Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: O'Keefe & Merritt
 MODEL: -----
 TYPE OF GENERATOR: A-c

 RATING:
 5 KW 5,000 WATTS
 120/208 VOLTS 52/23 AMPERES
 POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 3
 WIRES: 4

 OPERATING SPEED: 1,800
 DRIVE: Direct
 NUMBER & TYPE OF BEARINGS: 2 ball

 INSULATION: Class A

COMPLETE UNIT

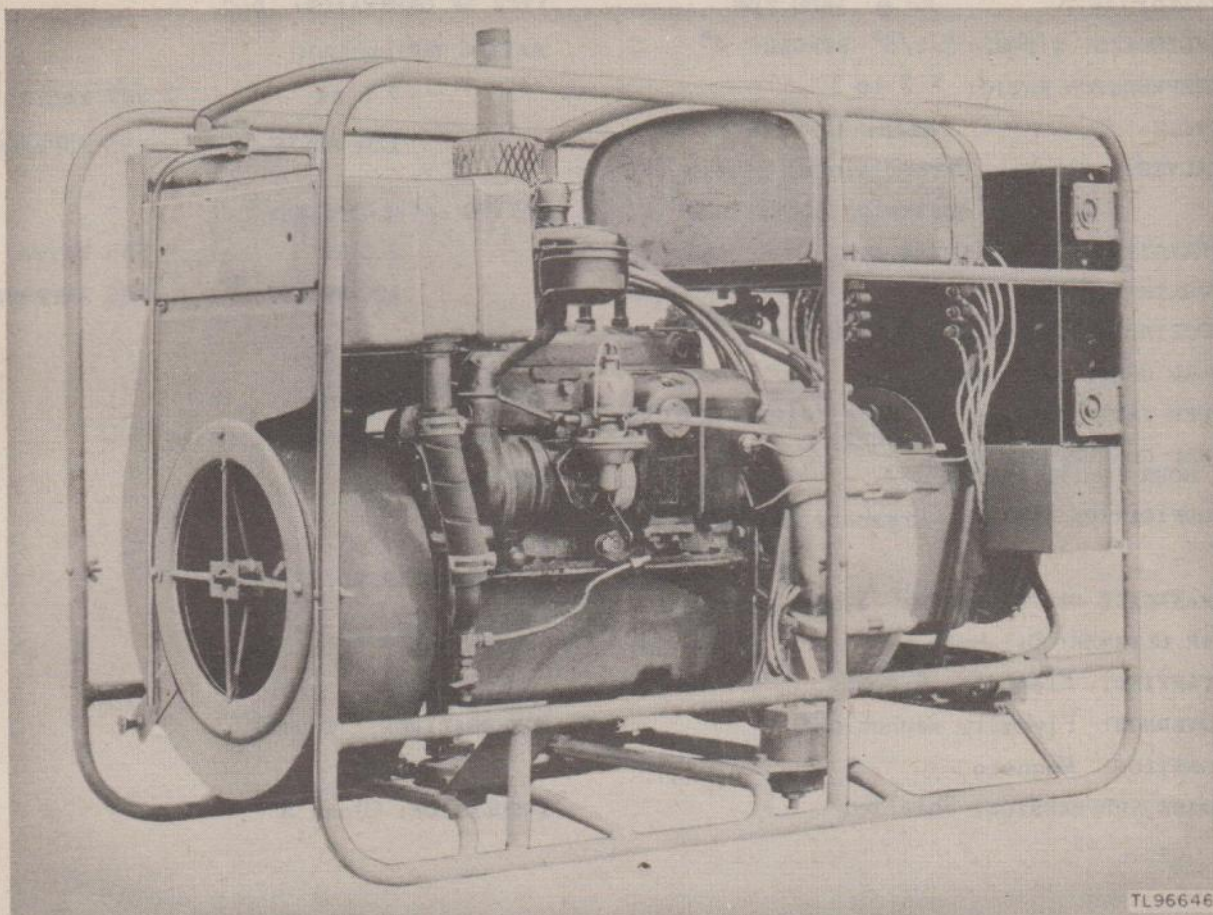
LENGTH: 44" WIDTH: 30" HEIGHT: 22"
 WEIGHT: (NET) 500 lb WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-960	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO.

STATUS: Standard

DATE APPROVED: 20 May 44

POWER UNIT

PU-35 / U**POWER UNIT PU-35/U**

Power Unit PU-35/U is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting, gasoline engine, directly connected to two a-c generators.

The engine is rated 13.5 horsepower at 1,800 revolutions per minute and consumes approximately 1.3 gallons of fuel per hour at rated load.

The generators are rated as follows: 2.5 kilowatts, 60 cycles, single phase, 120 volts, 26 amperes at 80 percent power factor; 2.5 kilowatts at 400 cycles, single phase, 120 volts, 26 amperes at 80 percent power factor.

The principal application of this power unit is the furnishing of power for the operation of Signal Corps Radar Set AN/TPL-1.

POWER UNIT PU-35/U

ENGINE CHARACTERISTICS

MAKE: Hercules Motors Corp (gasoline)
 MODEL: ZXB
 RATED: 13.5 HP @ 1800 rpm
 CYLINDERS: 4 BORE: 2-5/8" STROKE: 3"
 COMPRESSION RATIO: 6.3 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Chrome nickel steel
 Exhaust: Austemite steel
 OPERATING SPEED: 1,714 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 16 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 5 gals (also separate tank)
 FUEL CONSUMPTION PER HOUR (RATED LOAD): 1.3
 LUBRICATION SYSTEM: Pressure and spray

 CRANKCASE OIL CAPACITY: 5 qts
 AIR CLEANER: Oil-bath
 STARTING: Electric, 6 volts
 GOVERNOR: Flyball, mechanical
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Carson and Leland
 MODEL: -----
 TYPE OF GENERATOR: A-c
 RATING (60-CYCLE):
 2.5 KW 2,500 WATTS
 120 VOLTS 26 AMPERES

 RATING (400-CYCLE):
 2.5 KW 2,500 WATTS
 120 VOLTS 26 AMPERES

 POWER FACTOR: 80%
 CYCLE: 60 and 400
 PHASE: 2 single-phase units
 WIRES: 2

 OPERATING SPEED: 1,714

 DRIVE: Direct

 NUMBER & TYPE OF BEARINGS: 1 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: WIDTH: HEIGHT:
 WEIGHT: (NET) WEIGHT: (CRATED)

INSTRUCTIONAL LITERATURE TM 11-975	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Signal Corps Ground Signal Agency
	STOCK NO.

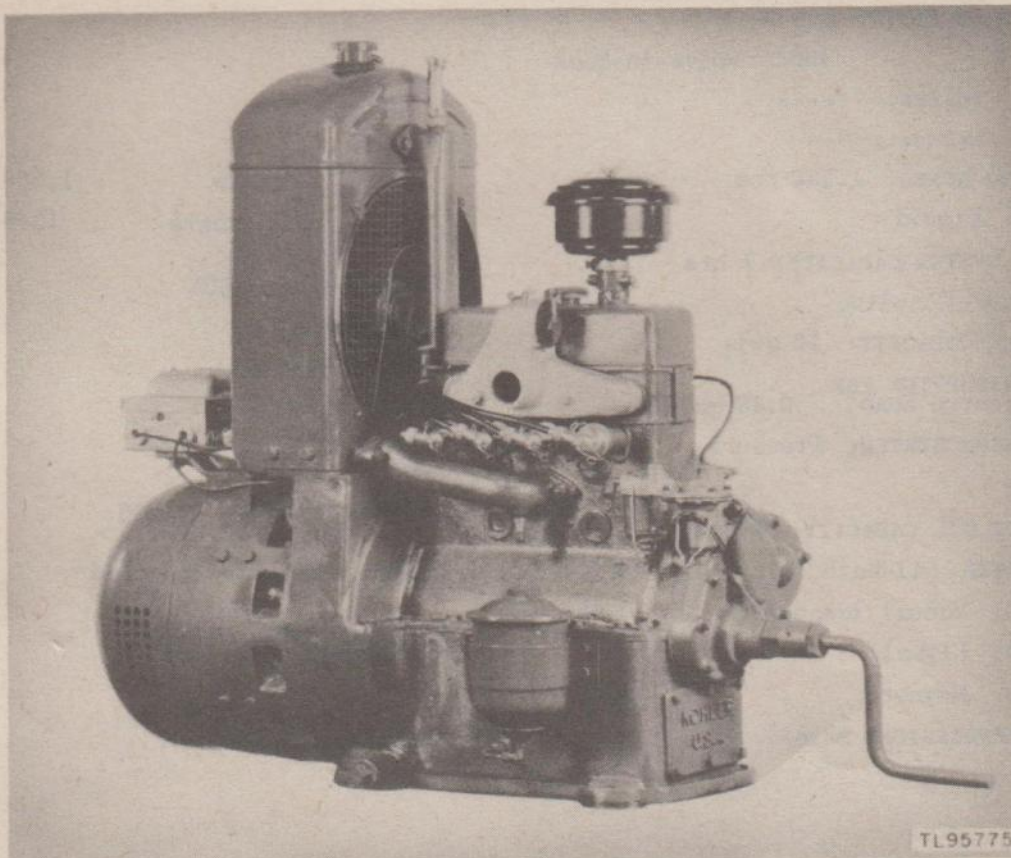
STATUS: SEE BELOW *

POWER UNIT

PU-41/G

(KOHLER MODEL 1M21A)

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY



POWER UNIT PU-41/G

Power Unit PU-41/G (Kohler Model 1M21A) is an electric generating set consisting of a 4-cylinder, 4-cycle, valve-in-head, liquid-cooled, manual-starting (crank) gasoline engine directly connected to an a-c generator of the revolving armature type.

The engine is rated 4.25 horsepower at 1,200 revolutions per minute, and consumes approximately 0.45 gallon of fuel per hour at rated load.

The generator is rated at 1.5 kilowatts, 60 cycles, single phase, 110 volts, 13.6 amperes at 100 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

This power unit was also issued as Kohler Model 1M21-A.

* Available and preferred for issue.

POWER UNIT PU-41/G (KOHLER MODEL 1M21A)

ENGINE CHARACTERISTICS

MAKE: Kohler Company (gasoline)
 MODEL: 1M21-A
 RATED: 4.25 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 2" STROKE: 3"
 COMPRESSION RATIO: 5.5 to 1
 CYCLE: 4 HEAD: valve-in-head
 VALVES: Intake: -----
 Exhaust: -----
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 7 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10 gals
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): 0.45 gals
 LUBRICATION SYSTEM: Pressure

 CRANKCASE OIL CAPACITY: 7 qts
 AIR CLEANER: Oil-bath
 STARTING: Manual (crank)
 GOVERNOR: Flyball
 IGNITION: Magneto
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: Kohler Company
 MODEL: 1M21A
 TYPE OF GENERATOR: A-c revolving
 armature

 RATING:
 1.5 KW 1,500 WATTS
 110 VOLTS 13.6 AMPERES

 POWER FACTOR: 100%
 CYCLE: 60
 PHASE: Single
 WIRES: 2

 OPERATING SPEED: 1,200

 DRIVE: Direct-connected

 NUMBER & TYPE
 OF BEARINGS: 1 ball

 INSULATION: Class A

COMPLETE UNIT

LENGTH: 45" WIDTH: 16" HEIGHT: 36"
 WEIGHT: (NET) 497 lb WEIGHT: (CRATED) 880 lb

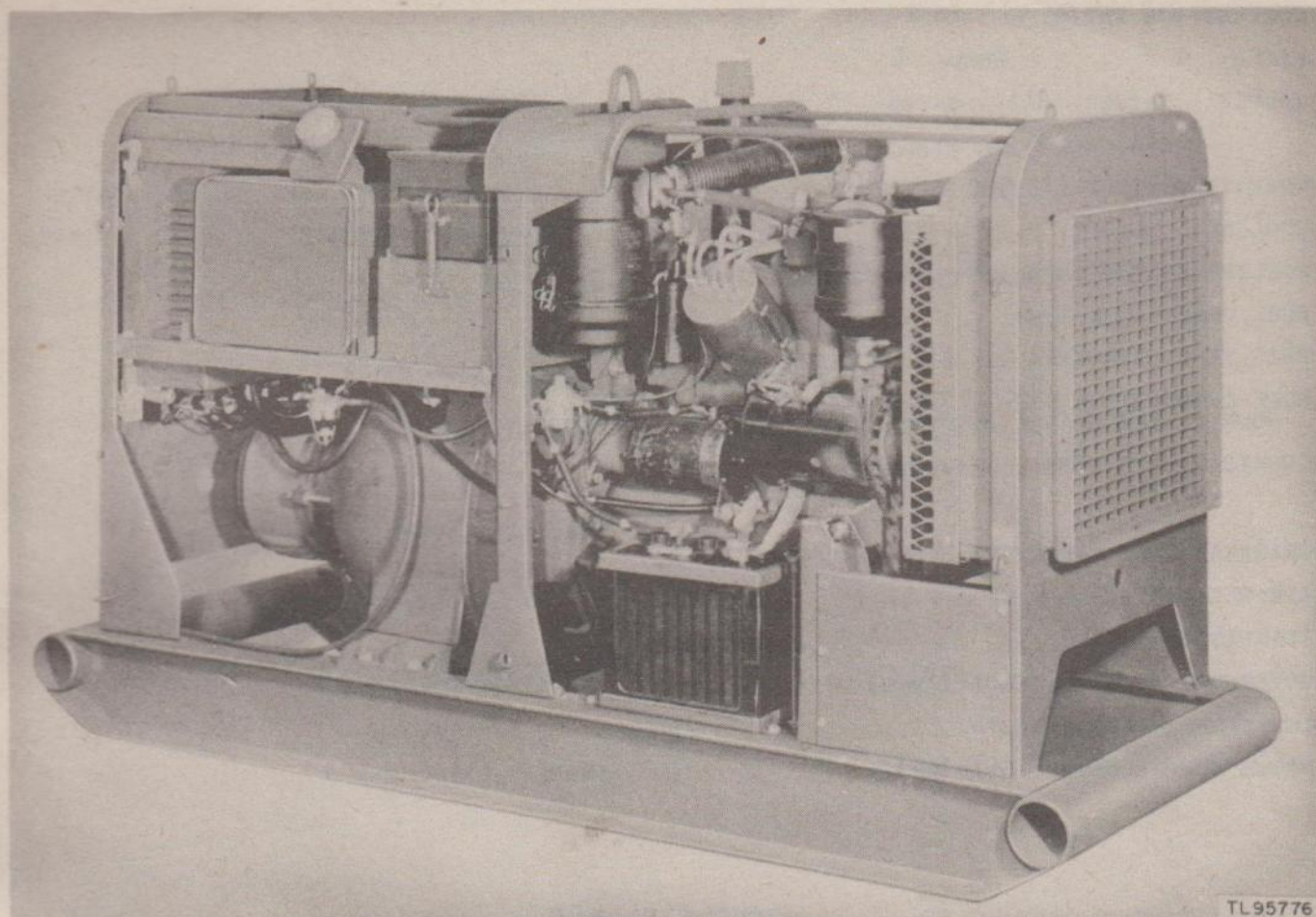
INSTRUCTIONAL LITERATURE TM 11-935	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4524-1M21A

STATUS: SEE BELOW *

POWER UNIT

PU-58/G

FOR USE WITH FIXED PLANT COMMUNICATION EQUIPMENT ONLY

**POWER UNIT PU-58/G WITH COVER REMOVED**

Power Unit PU-58/G is an electric generating set consisting of a 4-cylinder, 4-cycle, L-head, liquid-cooled, electric-starting gasoline engine, directly connected to an a-c generator.

The engine is rated 22 horsepower at 1,200 revolutions per minute, and consumes approximately 1.25 gallons of fuel per hour at rated load.

The generator is rated at 5 kilowatts, 60 cycles, single phase, 120/240 volts, 52/26 amperes at 80 percent power factor.

NOTE: This power unit is issued as project material only and is for use with Signal Corps Fixed Plant Communication Equipment exclusively.

Power Unit PU-58/G supercedes and replaces Power Units PE-63-H, PE-95-F and PE-235-A.

* Available and preferred for issue.

POWER UNIT PU-58/G

ENGINE CHARACTERISTICS

MAKE: Willys Overland (gasoline)
 MODEL: MB-441
 RATED: 22 HP @ 1,200 rpm
 CYLINDERS: 4 BORE: 3-1/8" STROKE: 4-3/8"
 COMPRESSION RATIO: 6.5 to 1
 CYCLE: 4 HEAD: L
 VALVES: Intake: Alloy steel
 Exhaust: Alloy steel
 OPERATING SPEED: 1,200 rpm
 COOLING: Liquid
 COOLING SYSTEM CAPACITY: 15-1/2 qts
 FUEL USED: Gasoline
 FUEL TANK CAPACITY: 10-1/2 gals
 FUEL CONSUMPTION PER
 HOUR (RATED LOAD): Approx 1.25 gals
 LUBRICATION SYSTEM: Pressure

CRANKCASE OIL CAPACITY: 5 qts
 AIR CLEANER: Oil bath
 STARTING: Electric
 GOVERNOR: Wirshing Centrifugal
 IGNITION: Battery, 6 volt
 NOISE SUPPRESSION: Shielded

GENERATOR CHARACTERISTICS

MAKE: O'Keefe & Merritt Co
 MODEL: PU/58G #10751-12
 TYPE OF GENERATOR: A-c

RATING:

5	KW	5,000	WATTS
120/240	VOLTS	52/26	AMPERES

POWER FACTOR: 80%
 CYCLE: 60
 PHASE: 1
 WIRES: 3

OPERATING SPEED: 1,200
 DRIVE: Direct-connected
 NUMBER & TYPE
 OF BEARINGS: 1 ball
 INSULATION: Class A

COMPLETE UNIT

LENGTH: 69-1/2" WIDTH: 28-5/8" HEIGHT: 40-1/2"
 WEIGHT: (NET) 1,690 Approx WEIGHT: (CRATED) 2,300 lb Approx

INSTRUCTIONAL LITERATURE TM 11-980	SECURITY CLASSIFICATION OF THIS EQUIPMENT: UNCLASSIFIED
	RESPONSIBLE AGENCY: Plant Engineering Agency
	STOCK NO. 3H4531-58