

SECTION 4 OF 10

NAVSHIPS 94200.1

DIRECTORY
OF
COMMUNICATION
EQUIPMENT

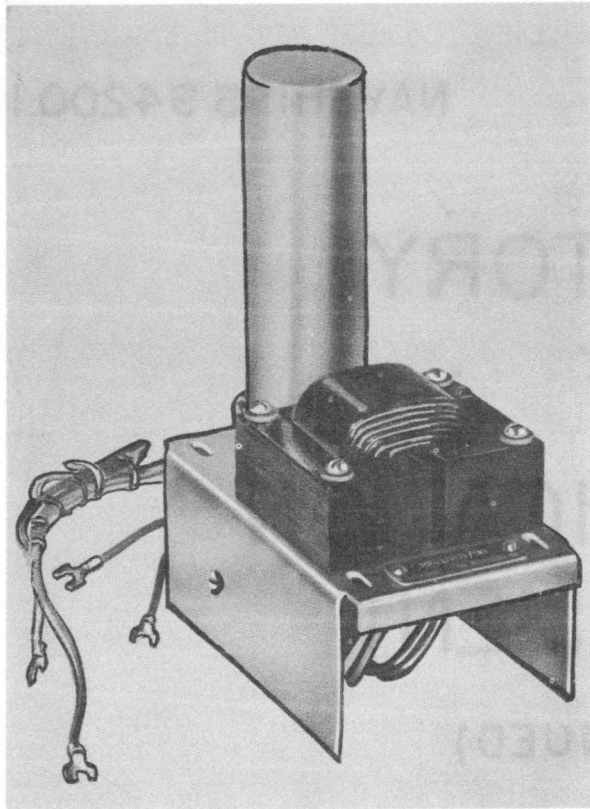
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PREPARED BY
U.S. NAVY
ELECTRONICS SUPPLY OFFICE
GREAT LAKES, ILLINOIS

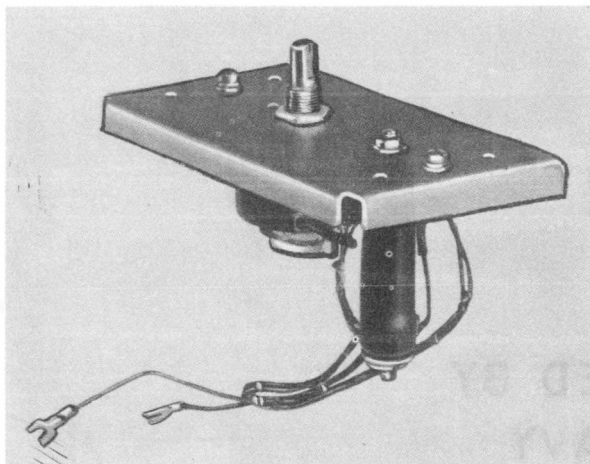
December 1956

TELETYPEWRITER RECTIFIER AND CABLE ASSEMBLY

PP-1010/UG



Teletypewriter Rectifier and Cable Assembly



Loop Circuit Resistor Assembly

Teletypewriter Rectifier and Cable Assembly

FUNCTIONAL DESCRIPTION

The PP-1010/UG is designed to furnish direct current to the elements included in a telegraph line loop circuit such as the selector magnets, motor starting relay, etc., on a teletypewriter. It will provide a signal line voltage between one teletypewriter and the radio terminal equipment aboard ship or between two teletypewriters connected in a local wire circuit. When more than one teletypewriter and a converter unit are used in a circuit aboard ship, the direct current voltage for the signal line and associated equipment will require another type of rectifier.

It is installed on the power distribution panel in a TT-47/UG, TT-48/UG, TT-69/UG, TT-70/UG or TT-47A/UG, TT-48A/UG, TT-69A/UG, TT-70A/UG, and the TT-176/UG Teletypewriter.

No field changes in effect at time of preparation (13 July 1956).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OUTPUT POWER: 120 v DC, 0.12 amp.

POWER CONSUMPTION: 23 W.

TYPE RECTIFICATION: (2) half wave 100 ma selenium stacks arranged for full wave connection to transformer.

POWER SUPPLY: 115 v nom, 50 to 60 cps.

LOOP CIRCUIT RESISTOR ASSEMBLY: Provides for limiting current to signal line loop to 20 or 60 ma, however approx 100 ma may be obtained.

MANUFACTURER'S OR CONTRACTOR'S DATA

Teletype Corp., Chicago, Illinois
Contract NObSr 63371.

Approximate Cost: \$50.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

NAVSHIPS 92142: Technical Manual for Teletypewriter Rectifier and Cable Assembly PP-1010/UG.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

PP-1010/UG

TELETYPEWRITER RECTIFIER
AND CABLE ASSEMBLY

December 1956

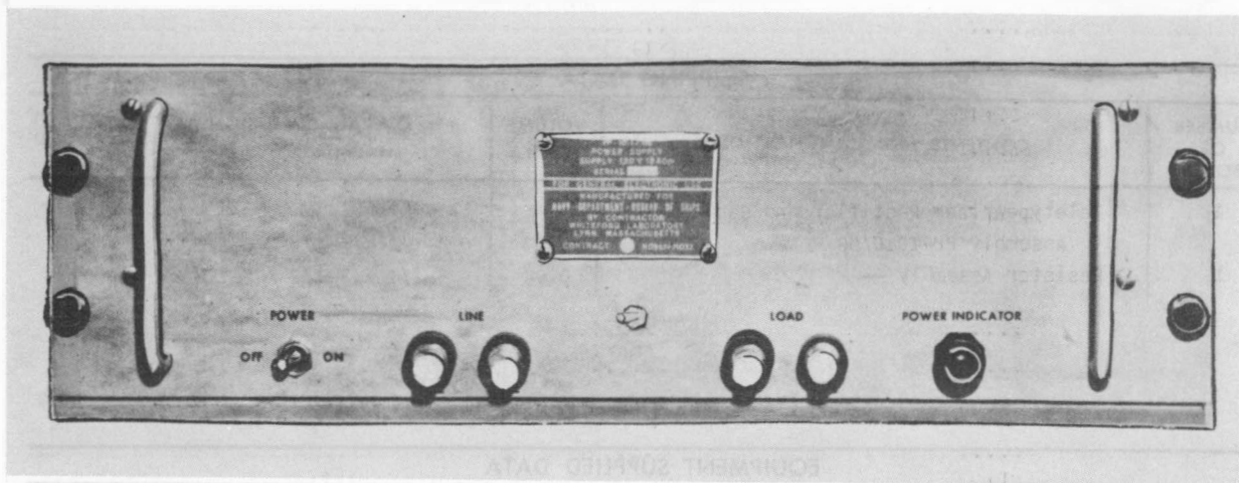
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Teletypewriter Rectifier and Cable Assembly PP-1010/UG	0.07	3-1/2 X 5-1/4 X 6-1/2	2.5
1	Resistor Assembly —	0.04	3-1/2 X 3-1/2 X 5-1/4	0.75

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Teletypewriter Rectifier And Cable Assembly		
1	Resistor Assembly		

June 1957

POWER SUPPLYRadio-Auxiliary
PP-1011/UG*Power Supply PP-1011/UG***FUNCTIONAL DESCRIPTION**

The PP-1011/UG is a table mounted unit intended to be used as a DC supply for a group of teletypewriters, and can be used up to its maximum output current rating of 0.4 amperes.

It is designed to produce 120 volts direct current from an 115 or 120 volt alternating current, 50 or 60 cycle supply. The voltage output is well regulated and will remain constant within plus or minus 2 percent with an AC voltage input change of plus or minus 10 percent. The DC voltage output will also remain regulated to the same degree when subjected to varying load changes of from half load to full load.

No field changes in effect at time of preparation (13 November 1956).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied:
Test Equipment as Required.

ELECTRICAL AND MECHANICAL CHARACTERISTICS**REGULATED OUTPUT**

VOLTAGE: 120 v DC.

VOLTAGE ACCURACY: $\pm 2\%$ with AC input of

$\pm 10\%$.

CURRENT: 0.4 amps max.

RIPPLE: Ripple free DC produced by filter circuit.

POWER REQUIREMENTS: 115 or 120 v, 50 or 60 cps, single phase, 150 va.

HEAT DISSIPATION: 100 W.

MANUFACTURER'S OR CONTRACTOR'S DATA

Whiteford Laboratory, Lynn, Massachusetts.
Contract NObsr-71032, dated 20 September 1955.

Approximate Cost: \$120.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

Technical Manual for Power Supply PP-1011/UG.

<p>TYPE CLASSIFICATION DESIGN COGNIZANCE BUSHIPS PROCUREMENT COGNIZANCE SHIPS-P-1841 STOCK NO.</p>
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SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-1011/UG including: (2) Technical Manual	1.6	10 X 20 X 22	55

EQUIPMENT SUPPLIED DATA

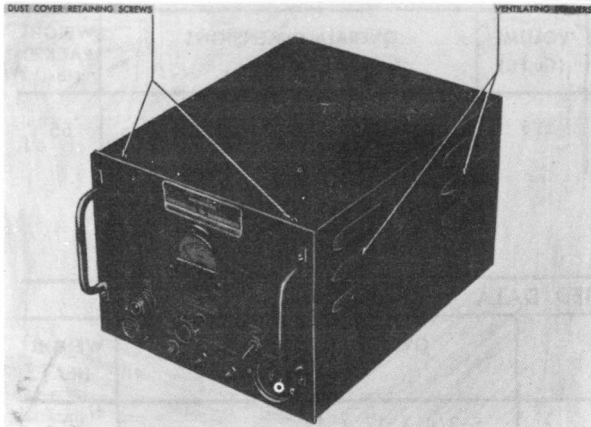
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1011/UG	5-3/4 X 17 X 19	40



STAG-20758E

QUANTITY	DESCRIPTION	UNIT	WEIGHT
1	Power Supply PP-1011/UG	EA	40

April 1958

POWER SUPPLY**PP-106/U***Power Supply PP-106/U***FUNCTIONAL DESCRIPTION**

The PP-106/U is a portable, general purpose, voltage-regulated power supply for electronic equipment, designed primarily for use with Test Set TS-24A/ARR-2 and Crystal Calibrated Frequency Indicating Equipment LM-14.

This supply furnishes a continuous variable DC voltage, adjustable by means of a single control, from 90 to 300 v. The output is regulated electronically within 2 per cent.

No field changes in effect at time of preparation (8 October 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS**REGULATED DC OUTPUT METER**

RANGE: 0 to 500 v.

SENSITIVITY: 1000 ohms per v.

ACCURACY: Within 2%.

REGULATED DC OUTPUT

VOLTAGE: 90 to 300 v.

CURRENT: 0.01 to 0.08 amp at 90 to 270 v;
0.01 to 0.06 amp at 270 to 300 v.

MAXIMUM RIPPLE: Less than 1.0 v peak to peak.

AC OUTPUT

VOLTAGE: 6.3 v, 12.6 v, or 28 v.

CURRENT: 5.0 amp or 2.5 amp.

MAXIMUM SAFE OPERATION: 24 hr.

POWER SOURCE REQUIRED: 115 v \pm 10%, 50 to 1200 cps, single ph, 1.6 amp max.

MANUFACTURER'S OR CONTRACTOR'S DATA

Automatic Mfg Corp., East Newark, N.J.
Contract NOas-3947.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 5R4GY (1) 6X5GT/G (2) 1625
(1) 6SJ7 (1) OC3/VR105
Total Tubes: (6)

REFERENCE DATA AND LITERATURE

AN08-35PP106-2: Handbook of Maintenance
Instructions for Power Supply PP-106/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-106/U consisting 3 Cables Equipment spare Parts 1 Technical Manual		21 x 24-1/2 x 28	95

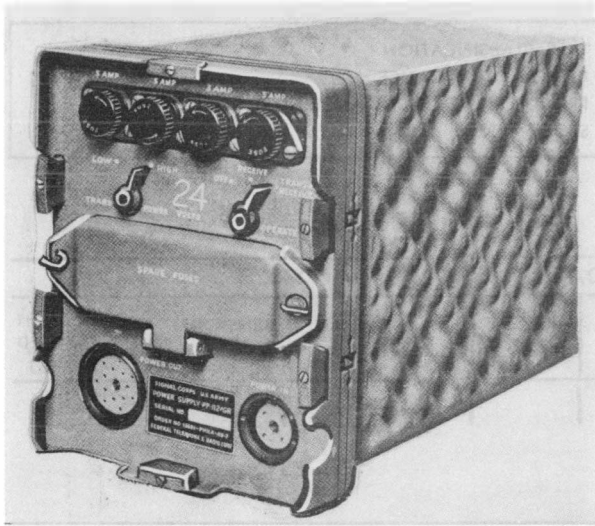
EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-106/U	7-3/4 x 10-9/16 x 14	44
1	Output Cable CC-102	48 lg	1
1	Output Cable CC-103	48 lg	1
1	Input Cable CC-101	120 lg	1
1	Technical Manual AN08-35PP106-2	1/4 x 8-1/2 x 11	0.25
1	Set of Equipment Spares		

December 1956

POWER SUPPLY

PP-109/GR,112/GR



Power Supply PP-109, 112/GR

FUNCTIONAL DESCRIPTION

The PP-109/GR and PP-112/GR are vibrator type power supplies which derive power from 12 and 24 volt storage batteries respectively. They are designed specifically to provide operating power for any one of Receiver-Transmitters RT-66/GRC, RT-67/GRC and RT-68/GRC, and means are provided for energizing the power circuits for the receiver only, or the power circuits for both the receiver and the transmitter. They also have means to allow either high or low power operation of the receiver-transmitters.

POWER DRAINS (FILAMENT AND CONTROL CIRCUIT)

	HIGH POWER	LOW POWER
RECEIVER FILAMENTS	6.3 v DC, 595 ma	6.3 v DC, 595 ma
TRANSMITTER FILAMENTS	6.3 v DC, 1,415 amp	6.3 v DC, 1,415 amp
RELAY CONTROL CIRCUITS	5.6 v DC, 431 ma	5.6 v DC, 431 ma

PLATE, SCREEN, AND BIAS POWER DRAINS

Transmit		Receive	
High	Low	High	Low
450 v DC, 75 ma	200 v DC, 33.5 ma	0 volts	0 volts
250 v DC, 11.5 ma	150 v DCM 4.8 ma	0 volts	0 volts
150 v DC, 37.5 ma	90 v DC, 22.5 ma	0 volts	0 volts
100 v DC, 19 ma	90 v DC, 17 ma	105 v DC, 20 ma	105 v DC, 20 ma
85 v DC, 70.7 ma	90 v DC, 75 ma	85 v DC, 50.5 ma	85 v DC, 50.5 ma
-27 v DC, 2 ma	0 volts	0 volts	0 volts

MANUFACTURER'S OR CONTRACTOR'S DATA

Contract MIPr. 881-53003
 Approximate Cost: \$200.00 PP-109/GR with equipment spares.
 Approximate Cost: \$180.00 PP-112/GR with equipment spares.

The PP-109/GR and PP-112/GR can be operated continuously for receiving only, but when used alternately for transmitting and receiving they should not be used for more than five minutes of continuous operation.

No field changes in effect at time of preparation (17 July 1956).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (1) Storage Battery, 12 volt (PP-109/GR) or 24 volt (PP-112/GR); (1) Receiver-Transmitter or Dummy Load; Test Equipment as Required.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT DATA

PP-112/GR: 25.2 v DC, 7.0 amp.
 PP-109/GR: 12.6 v DC, 11.5 amp.

VIBRATOR DATA

PP-112/GR: 24 v type.
 PP-109/GR: 6 v type.

SERVICE CONDITIONS

ALTITUDE: 10,000 ft max.
 NORMAL OPERATING TEMPERATURE: -40 deg C to +55 deg C (-40 deg F to +130 deg F).
 SHOCK AND VIBRATION: Will stand shocks, strains, and vibration in a vehicle operating over rugged terrain.
 WEATHER AND CLIMATE: Immersion and fungi-proofed.

TUBE AND/OR CRYSTAL COMPLEMENT

PP-112/GR
 (2) 1007 (1) OB2 (1) OA2
 Total Tubes: (4)
 PP-109/GR
 (2) 1007 (1) OB2 (1) OA2
 Total Tubes: (4)

PP-109/GR,112/GR

POWER SUPPLY

REFERENCE DATA AND LITERATURE

TM11-5036 Technical Manual for Power Supplies
PP-109/GR and PP-112/GR.

TYPE CLASSIFICATION DESIGN COGNIZANCE TASSA PROCUREMENT COGNIZANCE STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
	Not Avialable			

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-109/GR or PP-112/GR	7-1/4 X 9-1/4 X 12-7/8	35

April 1958

POWER SUPPLY**PP-1092/U***Power Supply PP-1092/U***FUNCTIONAL DESCRIPTION**

The PP-1092/U is used generally to supply all DC power for electronics equipments such as SCR-522, AN/ARC-1, AN/ARC-3 etc.

No field changes in effect at time of preparation (13 March 1958).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER SOURCE REQUIRED: 115 or 230 v, 60 cps, single ph, 450 W.

OUTPUT VOLTAGES: +360 v DC at 360 ma; 150 v DC at 30 ma, either 13 v DC or 26 v DC at 4.0 amp. The +360 v DC and -150 v DC is electronically regulated to within 2%.

MANUFACTURER'S OR CONTRACTOR'S DATA

J.H. Keeney and Co. Inc, Chicago, Ill.

Type No. KU-4.

Contract: NObsr-63227, dated 13 Feb 1953.

Approximate Cost: \$294.22 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 5Y3GT (2) 5U4G (2) OA2
(4) 6AU5 (1) 6AG5

Total Tubes: (10)

No Crystals used

REFERENCE DATA AND LITERATURE

J. H. Keeney Co. "Instructions and Parts List for Rectifier Power Supply Type KU-4".

TYPE CLASSIFICATION	
DESIGN COGNIZANCE	BUSHIPS
PROCUREMENT COGNIZANCE	
STOCK NO.	

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-1092/U	2.95	15 x 16 x 20	85
1	Set Equipment Maintenance Spares	1.03	7 x 15 x 17	60

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1092/U	15 x 16 x 20	85
1	Set Equipment Maintenance Spares	7 x 15 x 17	60
1	Connector-Electrical, Plug	1-15/32 dia x 2-1/8	0.133

19 July 1962

Cog Service: TASSA FSN: 6130-500-3595

POWER SUPPLY PP-1097/G

Functional Class:

USA

USN

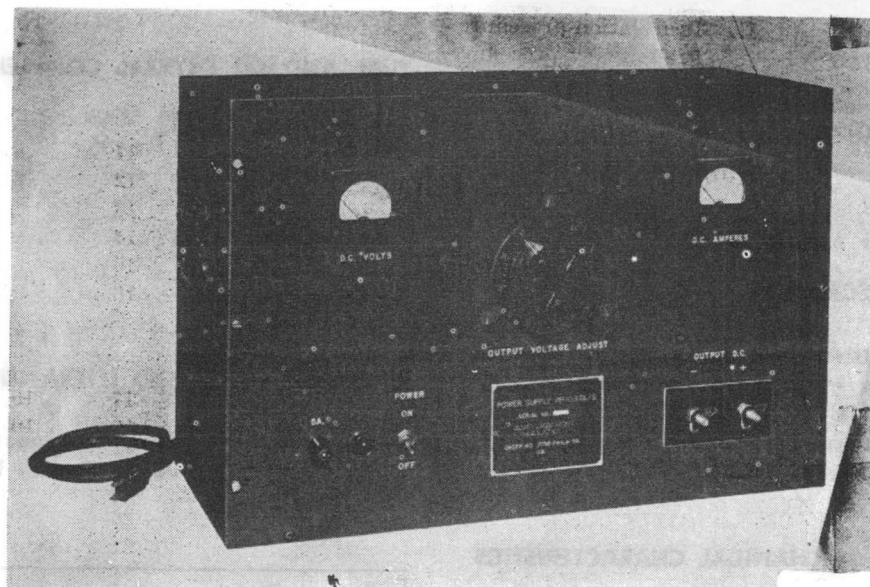
USAF

TYPE CLASS:

Used by

Used by

MANUFACTURER'S NAME/CODE NUMBER: Eldico of New York Inc., (01650).



Power Supply PP-1097/G

FUNCTIONAL DESCRIPTION:

The Power Supply PP-1097/G is a selenium rectifier type power unit designed to convert ac to 6, 12 or 24 volts dc. The unit is used as a source of power in maintenance shops, at fixed installations for the operation of radio sets, direction-finder sets, automatic pilots, and marker beacon receiving sets.

No field changes in effect at time of preparation (3 January 1962).

TECHNICAL CHARACTERISTICS:

TYPE OF INSTALLATION: Portable.

TYPE OF RECTIFICATION: Metallic, full-wave.

TYPE OF RECTIFIER ELEMENT: Magnesium-copper oxide.

EQUIPMENT FUNCTION: To convert ac to low voltage dc.

PP-1097/G POWER SUPPLY

OPERATING POWER RQMT**INPUT**

VOLTAGE: 115 v ac.

FREQUENCY: 60 cps.

OUTPUT: 6 v dc, 50 amp; 12 v dc, 25 amp; 24 v dc, 12.5 amp.

RELATION TO OTHER EQUIPMENT:

The PP-1097/G is designed to be used with, but not part of Receiving Set, Radio AN/ARN-30, Direction Finder Set AN/ARD-7 and AN/ARD-8, Marker Beacon Receiving Set AN/ARN-12 and Automatic Pilot AN/ASN-5.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Power Supply PP-1097/G		9 x 14 x 22	

REFERENCE DATA AND LITERATURE:

TM11-5111: Technical Manual for Power Supply PP-1097/G, PP-1097A/G and PP-1097B/G.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: None used.

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
1	5.9	130

PROCUREMENT DATA

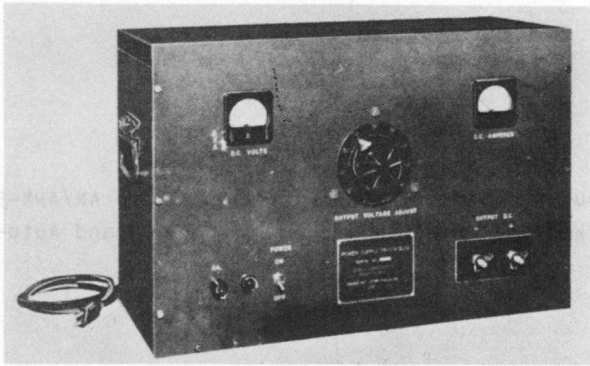
PROCURING SERVICE: TASSA
SPEC &/OR DWG:

DESIGN COG: TASSA

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
Eldico of New York Inc.	Mineola, L. I., N. Y.		

February 1960

Radio-Auxiliary

POWER SUPPLY**PP-1097A/G**

Power Supply PP-1097A/G

rectifier assembly consisting of four sections.

ELECTRICAL AND MECHANICAL CHARACTERISTICS**INPUT**

VOLTAGE: 115 volts AC.

FREQUENCY: 60 cy.

PHASE: Single.

OUTPUT: 6 volts DC, 50 amp.
12 volts dc, 25 amp.
24 volts dc, 12.5 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

Eldico of N. Y. Inc., Mineola, L.I., N.Y.
Model DC-400.
Order No. 21758-PH-56-55(31).

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

REFERENCE DATA AND LITERATURE

TM11-5111: Technical Manual for POWER SUPPLY PP-1097A/G and PP-1097B/G.

FUNCTIONAL DESCRIPTION

Power Supply PP-1097A/G is a selenium rectifier type power unit designed to convert ac to 6, 12, or 24 volts dc. The unit is used as a source of power in maintenance shops at fixed installations for the operation of radio sets, direction-finder sets, automatic pilots, and marker beacon receiving sets.

The power supply consists of a panel and chassis assembly inclosed in a ventilated steel case. All the controls and instruments necessary for the operation of the unit are mounted on the front panel. Connections for the desired dc output voltage are made on a link terminal board located beneath the top cover.

No field changes in effect at time of preparation (29 June 1959).

RELATION TO OTHER EQUIPMENT

This unit similar to Power Supply PP-1097B/G, except that the PP-1097A/G includes four separately mounted selenium rectifiers and the PP-1097B/G includes one selenium

TYPE CLASSIFICATION

DESIGN COGNIZANCE TASSA

PROCUREMENT COGNIZANCE

STOCK NO.

SHIPPING DATA

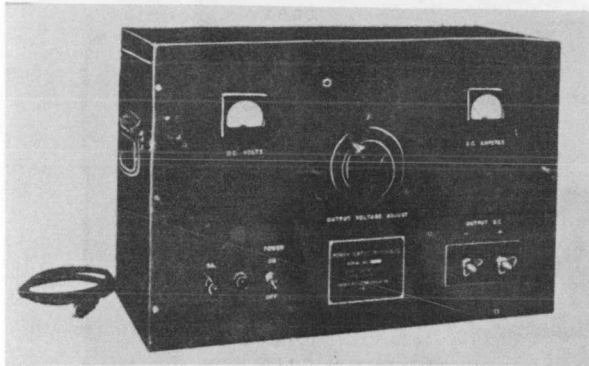
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-1097A/G	5.9	17 X 25 X 30	130

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1097A/G	9 X 14 X 22	

POWER SUPPLY

PP-1097B/G



Power Supply PP-1097B/G

four separately mounted selenium rectifiers, while the PP-1097B/G includes one selenium rectifier assembly consisting of four sections.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT

VOLTAGE: 115 v AC.

FREQUENCY: 60 cy.

PHASE: Single.

OUTPUT: 6 volts DC, 50 amp.
12 volts DC, 25 amp.
24 volts DC, 12.5 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

Madigan Corp., Carle Place, L. I., N. Y.
Order No. 19795-PP-58.

FUNCTIONAL DESCRIPTION

Power Supply PP-1097B/G is a selenium rectifier type power unit designed to convert ac to 6, 12, or 24 volts dc. The unit is used as a source of power in maintenance shops at fixed installations for the operation of radio sets, direction-finder sets, automatic pilots, and marker beacon receiving sets.

The power supply consists of a panel and chassis assembly inclosed in a ventilated steel case. All the controls and instruments necessary for the operation of the unit are mounted on the front panel. Connections for the desired dc output voltage are made on a link terminal board located beneath the top cover.

No field changes in effect at time of preparation (29 June 1959).

RELATION TO OTHER EQUIPMENT

This unit is similar to Power Supply PP-1097A/G, except that the PP-1097A/G includes

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

REFERENCE DATA AND LITERATURE

Tm11-5111: Technical Manual for Power Supply PP-1097A/G and PP-1097B/G.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

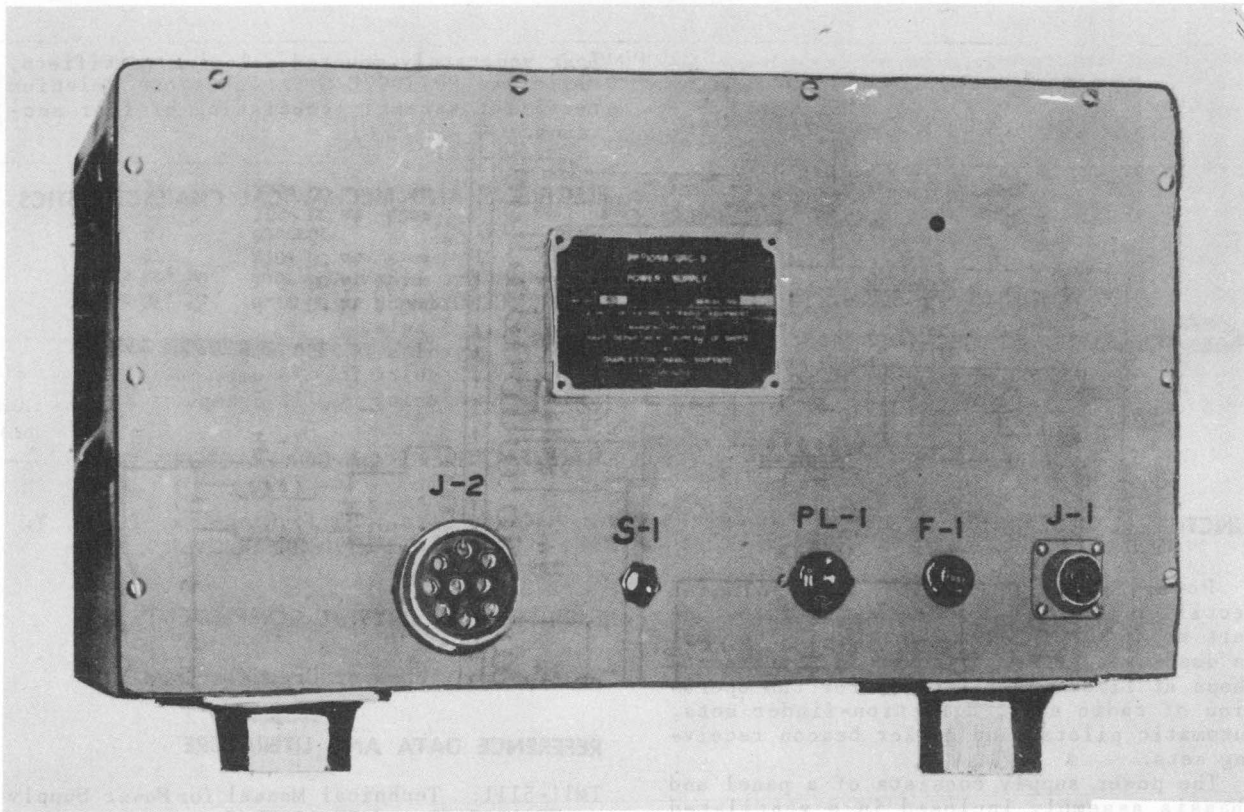
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-1097B/G	5.9	17 X 25 X 30	130

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1097B/G	9 X 14 X 22	

December 1956

POWER SUPPLY**PP-1098/GRC-9***Power Supply PP-1098/GRC-9***FUNCTIONAL DESCRIPTION**

The PP-1098/GRC-9 is designed to convert 115 v 60 cycle single phase AC into the proper DC voltages to operate Radio Set AN/GRC-9.

The equipment is suitable for use either on shipboard or at shore stations where the normal supply voltage is 115 v, 60 cycle, single phase.

No field changes in effect at time of preparation (13 July 1956).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER INPUT: 115 v, 60 cycle, single phase
215 W max at rated load.

OUTPUT: 470 v DC at 95 ma, 105 v DC at 42 ma, 105 v DC at 17 ca, 6.1 v DC at 2.5 amp, 1.5 v DC at 450 ma, and 65 W max at rated load.

MANUFACTURER'S OR CONTRACTOR'S DATA

Charleston Naval Shipyard, Charleston,
S. C.

Order NO: 10704/53

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 5R4WGY

Total Tubes: (1)

REFERENCE DATA AND LITERATURE

NAVSHIPS 92310 Technical Manual for Power
Supply PP-1098/GRC-9

TYPE CLASSIFICATION DESIGN COGNIZANCE BUSHIPS PROCUREMENT COGNIZANCE STOCK NO.
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PP-1098/GRC-9

POWER SUPPLY

December 1956

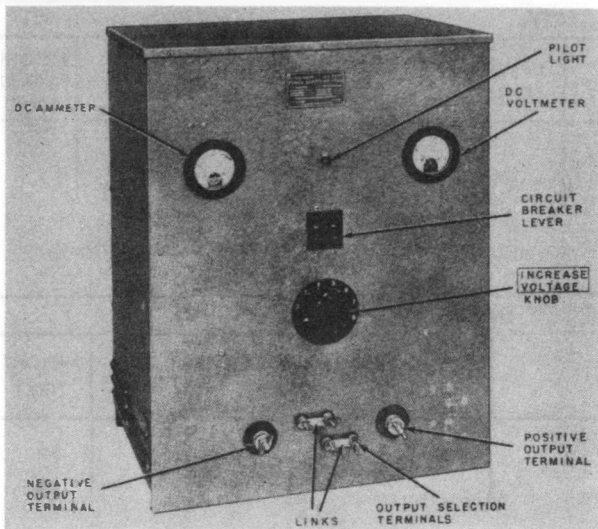
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power supply PP-1098/GRC-9 includes A.C. power cord			

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power supply PP-1098/GRC-9	9 X 16-1/2 X 10-1/4	59
1	A.C. power cord		1

POWER SUPPLY



Power Supply PP-1104A/G

No field changes in effect at time of preparation (10 June 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OUTPUT DATA

VOLTAGE: 11.5 to 17.5 v DC or 23 to 35 v DC.

CURRENT: 100 amps at 14 v, 50 amps at 28 v.

RIPPLE VOLTAGE: 90%.

POWER REQUIREMENTS: 115 or 230 v, 60 cps, single ph, 28 amps.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

TM11-5126: Technical Manual for Power Supply PP-1104A/G.

FUNCTIONAL DESCRIPTION

The PP-1104A/G is designed to convert alternating current to direct current, and is used in maintenance shops as a source of low-voltage direct-current for maintenance of communication equipment.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

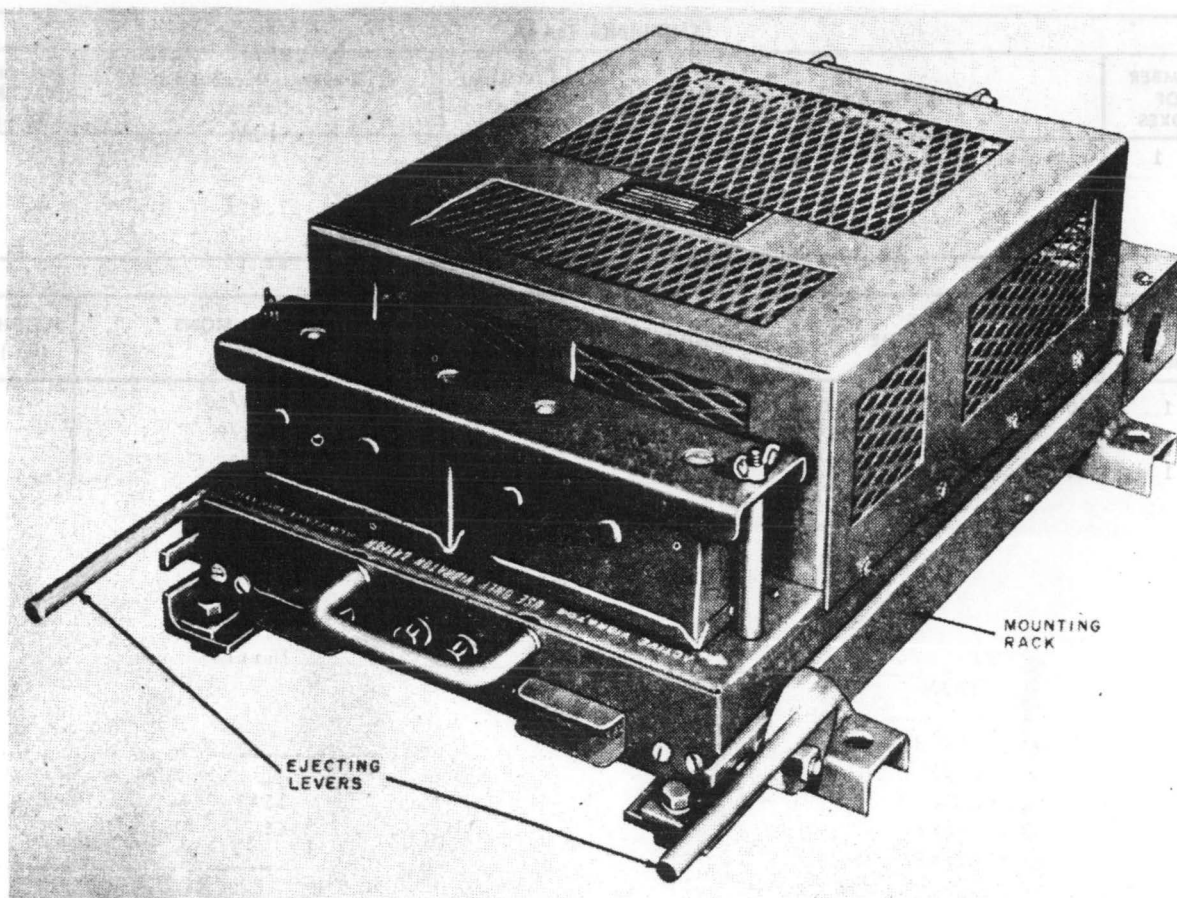
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-1104A/G	7.9	17 X 26 X 31	287

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1104A/G	13.3 X 22.3 X 27.6	210
2	Technical Manual TM11-5126	0.125 X 6.0 X 9.125	

VIBRATOR INVERTER

Radio-Auxiliary
PP-1116A/FRC

Vibrator Inverter PP-1116A/FRC

FUNCTIONAL DESCRIPTION

The PP-1116A/FRC is a heavy-duty power supply that incorporates dual plug-in vibrators with automatic switching. The inverter is used in mobile installations where a source of 115 v AC at 60 cps is required for operating communication equipment. The inverter may be used on trains where an input of 64 v DC at 8.5 amp is available for operating railroad dispatching communication equipment or for operating any equipment on trains that requires a 115 v AC power source. By making suitable connections, the inverter may be operated from a remote point.

No field changes in effect at time of preparation (21 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 64 v DC, 8.5 amp.

OUTPUT: 115 v AC, 3.5 amp.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

TM11-906: Technical Manual for Vibrator Inverter PP-1116A/FRC.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

VIBRATOR INVERTER

SHIPPING DATA

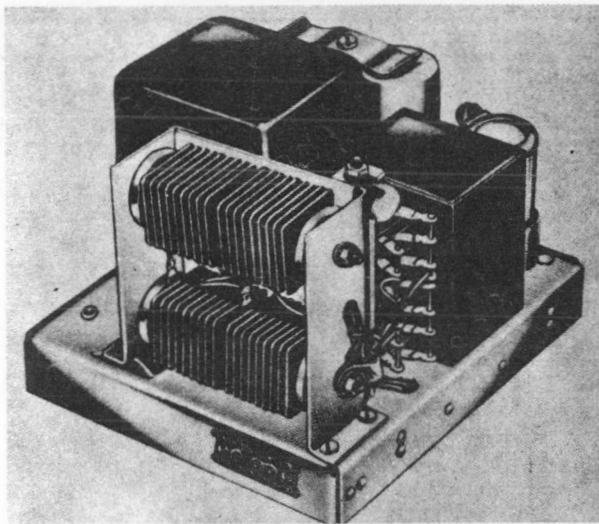
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Vibrator Inverter PP-1116A/FRC Rack			

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Vibrator Inverter PP-1116A/FRC	8 X 14-3/16 X 24-3/16	
1	Rack	4 X 17-5/16 X 29-1/2	
1	Set Running Spares		

October 1957

POWER SUPPLY

Radio-Auxiliary
PP-1126/U, 1127/U, 1128/U

Power Supply PP-1126/U,
PP-1127/U, PP-1128/U

24 v DC at 245 ma.
1.4 v DC at 1.25 amp.
PP-1127/U: 6.3 v AC at 450 ma.
6.3 v AC at 750 ma.
1.4 v DC at 1.25 ma.

PLATE, SCREEN, BIAS CIRCUIT POWER OUTPUT:

155 v DC at 15 ma.
150 v DC at 5 ma.
140 v DC at 50 ma.
-40 v DC at 0.5 ma.

ALTITUDE: 10,000 ft max.

OPERATING TEMPERATURE: -40 deg C to ± 55 deg C.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

FUNCTIONAL DESCRIPTION

The PP-1126/U, PP-1127/U and PP-1128/U are used with nontactical radio equipment on trains, small boats, vehicles and certain aircraft.

They are the nonsynchronous vibrator type, and derive input power from 32 v, 64 v, and 110 v DC sources, respectively.

No field changes in effect at time of preparation (27 March 1957).

REFERENCE DATA AND LITERATURE

TM11-5104: Technical Manual for Power Supplies PP-1126/U, PP-1127/U and PP-1128/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT POWER

PP-1126/U: 29 to 40 v DC at 860 ma.
PP-1127/U: 58 to 80 v DC at 410 ma.
PP-1128/U: 101 to 137 v DC at 370 ma.

FILAMENT AND HEATER CIRCUIT OUTPUT POWER

PP-1126/U: 6.3 v AC at 450 ma.

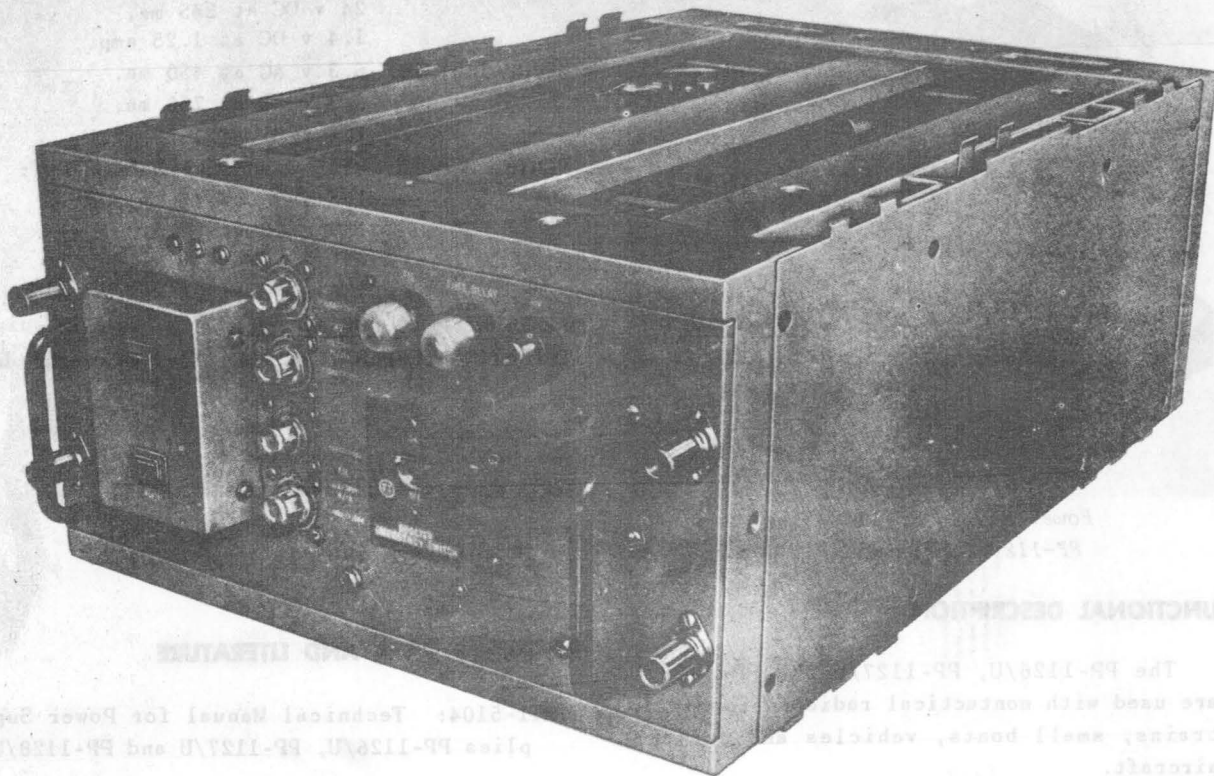
TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1126/U, PP-1127/U or PP-1128/U	5 x 6-1/4 x 7	10

POWER SUPPLY

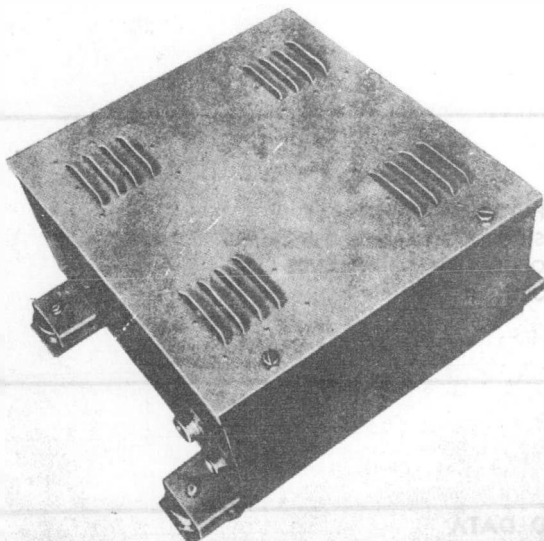
PP-1163 (XN-2)/URT



High Voltage Booster Rectifier Drawer & Frame PP-1163(XN-2)/URT

FUNCTIONAL DESCRIPTION

The PP-1163(XN-2)/URT is used with an AN/URT-3 or AN/URT-4 equipment as a high voltage power supply in installations where the specified three-phase, 220/440 v, 60 cps power is not available. In such installations it replaces Cabinet CY-994/URT and Power Supply PP-707/URT, both units of the AN/URT-3 and AN/URT-4. Operating on a single phase primary power of either 115 v, 60 cps or 230 v, 60 cps, it supplies plate and screen voltages to the high-level modulator (Radio Modulator MD-149/URT) and to the RF Amplifier AM-519/URT of the AN/URT-3 and 4 equipment when the latter is operated at the 500 w level.



High Voltage Booster Rectifier Transformer

Cage, PP-1163(XN-2)/URT

No field changes in effect at time of preparation (22 March 1957).

October 1957

Radio-Auxiliary

PP-1163 (XN-2)/URT

POWER SUPPLY

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER SOURCE: 115 or 230 v, 60 cps, single ph.

CURRENT DRAIN

115-V: 3.1 amp (standby), 16.3 amp (operate).

230: 1.25 amp (standby), 8.1 amp (operate).

POWER FACTOR: 90%.

OUTPUT: (at 500 w transmitter operation only).

PHONE OPERATION: 2400 v DC at 550 ma.

TELEGRAPH OR FASCIMILE OPERATION: 3000 v DC at 340 ma.

HEAT DISSIPATION: 700 w, nom.

Contract NObsr-57260, dated 5 March 1952.

Federal Telecommunication Laboratories, Nutley, N.J.

TUBE AND/OR CRYSTAL COMPLEMENT

(4) 3B28

Total Tubes: (4)

REFERENCE DATA AND LITERATURE

NAVSHIPS 92529: Technical Manual for Power Supply PP-1163(XN-2)/URT.

MANUFACTURER'S OR CONTRACTOR'S DATA

Federal Telecommunication Laboratories, Nutley, N.J.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUORD
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	HV Booster Rectifier Drawer	7-5/8 X 16 X 24-1/4	
1	HV Booster Rectifier Frame	9-5/8 X 16 X 24-1/8	
1	HV Booster Rectifier Transformer Cage	11-1/2 X 20 X 24-1/4	
1	Set Installation Materials		
1	Technical Manual	1/2 X 8-1/2 X 11	
1	Transformer	3-13/32 X 3-13/32 X 4-21/32	

POWER SUPPLY

PP-1175/SR

FUNCTIONAL DESCRIPTION

The PP-1175/SR is designed to operate from a 115 volt, single phase, 60-cycle power source to supply the plate, filament, bias and relay voltages for Receiver-Transmitters RT-66/GRC, RT-67/GRC, or RT-68/GRC simultaneously with auxiliary Radio Receiver R-108/GRC, R-109/GRC, or R-110/GRC. It provides for energizing the power circuits for the receivers only, or the power circuits for both the receivers and transmitter. When interconnected with Control Adapter MX-1986/SCR, it permits remote control of the above equipments providing modifications are made to the junction box of the associated Mounting MT-299/GR or MT-327/GR in accordance with Field Change Bulletin No. 1 of AN/SRC-10Y, 11Y, 12Y, 13Y, 14Y, or 15Y.

No field changes in effect at time of preparation (12 August 1957).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (1) Cable Assembly CX-1211/U, (1) Cable DCOP-3, (1) Cable FCOP-3, (2) Technical Manual for AN/SRC Equipment, (2) Field Change Bulletin No. 1 for AN/SRC-10Y, 11Y, 12Y, 13Y, 14Y, or 15Y.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER REQUIREMENTS: 115 v $\pm 5\%$, 60 cps, single ph, 200 W approx.

AMBIENT TEMPERATURE LIMITATIONS: 0 to 50 deg C (+32 to +122 deg F).

HEAT DISSIPATION: Approx 108 W.

OUTPUT SUPPLY DATA (VDC)

	TRANSMIT		RECEIVE	
	HIGH	LOW	HIGH	LOW
RECEIVER FILAMENTS	6.3(594 ma)	6.3(594 ma)	6.3(594 ma)	6.3(594 ma)
AUXILIARY RECEIVER FILAMENTS	6.3(1.05 amps)	6.3(1.05 amps)	6.3(1.05 amps)	6.3(1.05 amps)
TRANSMITTER FILAMENTS	6.3(1.415 amps)	6.3(1.415 amps)	6.3(1.415 amps)	6.3(1.415 amps)
RELAY CONTROL CIRCUITS	5.6(431 ma)	5.6(431 ma)	5.6(431 ma)	5.6(431 ma)
PLATE, SCREEN, BIAS	450(75 ma)	200(33.4 ma)	0	0
	250(11.4 ma)	105(4.8 ma)	0	0
	150(37.5 ma)	90(22.5 ma)	0	0
	105(20 ma)	105(20 ma)	105(20 ma)	105(20 ma)
	85(70.8 ma)	90(75 ma)	85(70.8 ma)	85(70.8 ma)
	-27(2 ma)	0	0	0
AUXILIARY RECEIVER B+	135(77.2 ma)	135(77.2 ma)	135(77.2 ma)	135(77.2 ma)

January 1958

Radio-Auxiliary

PP-1175/SR

POWER SUPPLY

MANUFACTURER'S OR CONTRACTOR'S DATA

(4) 1N248

(6) 1N540

Mercury Manufacturing Corp., Buffalo,
N. J.

Contract NObsr-64278, dated 30 June
1954.

Approximate Cost: \$180.00 with equip-
ment spares.

Total Crystals: (10)

REFERENCE DATA AND LITERATURE

NAVSHIPS 92904: Technical Manual for Power
Supply PP-1175/SR.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) OA2WA

(1) OB2WA

Total Tubes: (2)

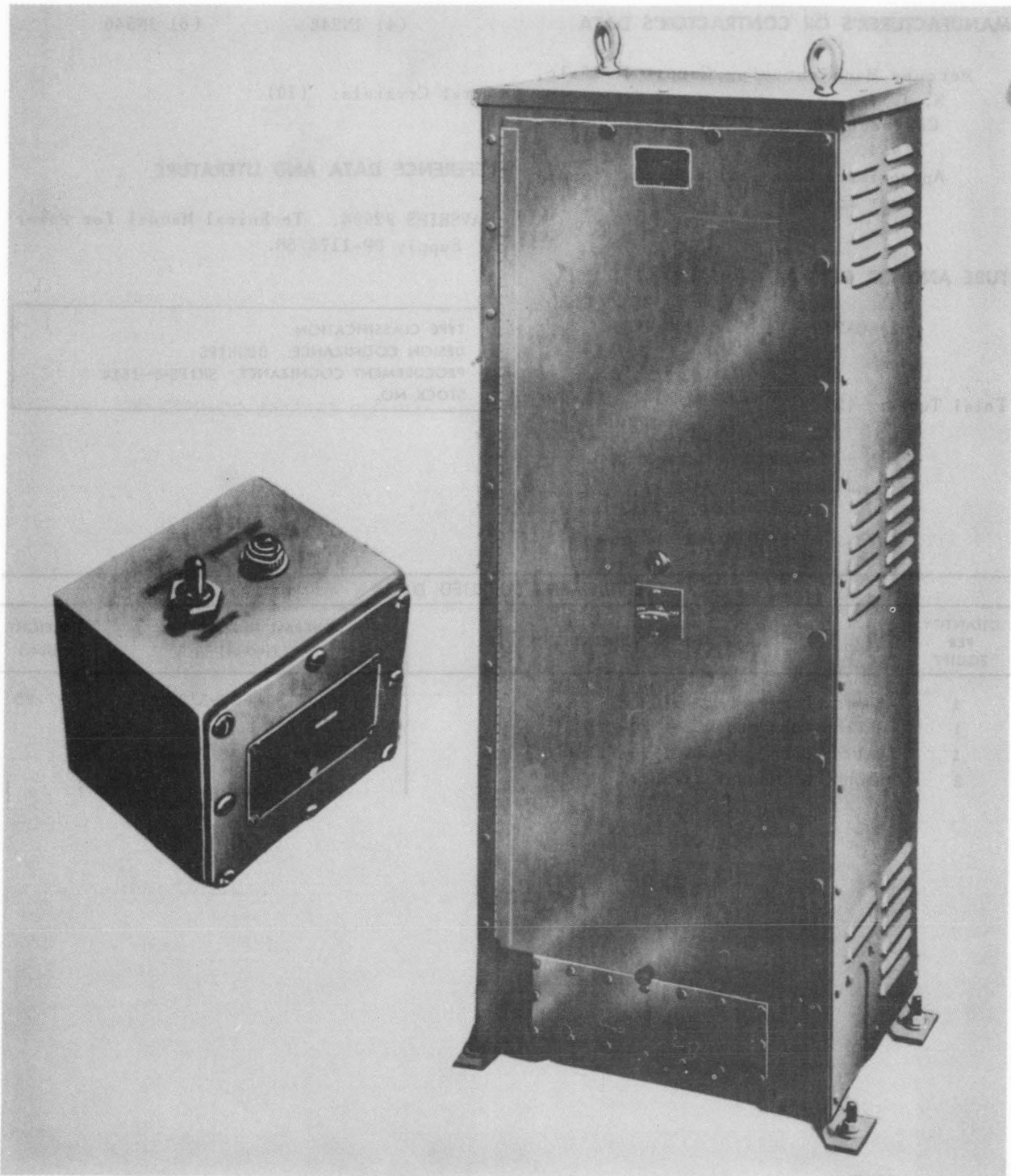
TYPE CLASSIFICATION DESIGN COGNIZANCE BUSHIPS PROCUREMENT COGNIZANCE SHIPS-P-1514 STOCK NO.
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EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1175/SR	7-1/4 X 9 X 14-3/32	37.25
1	Mating Connector CS-1320-(1)(S)		
1	Mating Connector CS-1320-(1)(P)		
2	Technical Manual NAVSHIPS 92904		

**POWER SUPPLY REMOTE
CONTROL BOX**

PP-1211/U, SA-405/U



Power Supply Remote Control Box PP-1211/U, SA-405/U

June 1957

Radio-Auxiliary

PP-1211/U,SA-405/U

POWER SUPPLY REMOTE CONTROL BOX

FUNCTIONAL DESCRIPTION

The PP-1211/U provides six simultaneous outputs of voltage, AC and rectified DC, to model TBL radio transmitters originally designed to operate from a DC power Source. The primary voltage is stepped up or down by a transformer with seven secondary windings, two of which supply AC power and five which after being rectified and filtered are applied as DC power to the TBL equipment. Selection of input voltages is accomplished manually by use of shorting bars or a terminal board.

The SA-405/U is designed for mounting outside the cabinet of the PP-1211/U on a table or bulkhead and contains a voltage-control switch and an indicator lamp.

No field changes in effect at time of preparation (25 Sept 1956).

RELATION TO OTHER EQUIPMENT

Connecting Cables as required.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OUTPUT DATA (SIMULTANEOUS)

VOLTS	CURRENT
2000 DC	0.7 amp
1000 DC	0.2 amp
250 DC	0.5 amp
230 or 115 DC	2.75 or 5.5 amp
220 AC	1.12 amp
115 AC	0.5 amp

OUTPUT REGULATION: 10%.

EFFICIENCY: 55% min at full load.

OVERLOAD: 25% (continuous).

DUTY: Continuous.

INPUT DATA: 220 or 440 v rms nom, 60 cps, ph.

TEMPERATURE DATA

AMBIENT: 22 deg C.

OPERATING: -45 to +50 deg C.

RISE: 125 deg C max.

RELATIVE HUMIDITY: 0 to 95%.

COOLING METHOD: Natural ventilation.

ENCLOSURE: Drip-proof.

REMOTE CONTROL BOX: Selects 1000 or 2000 v outputs.

MANUFACTURER'S OR CONTRACTOR'S DATA

International Rectifier Corp

Perkin Engineering Corp;

Contract NObsr-63386, dated 27 March, 1953.

Approximate Cost: \$950.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

Technical Manual for Power Supply PP-1211/U, Remote Control Box SA-405/U.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

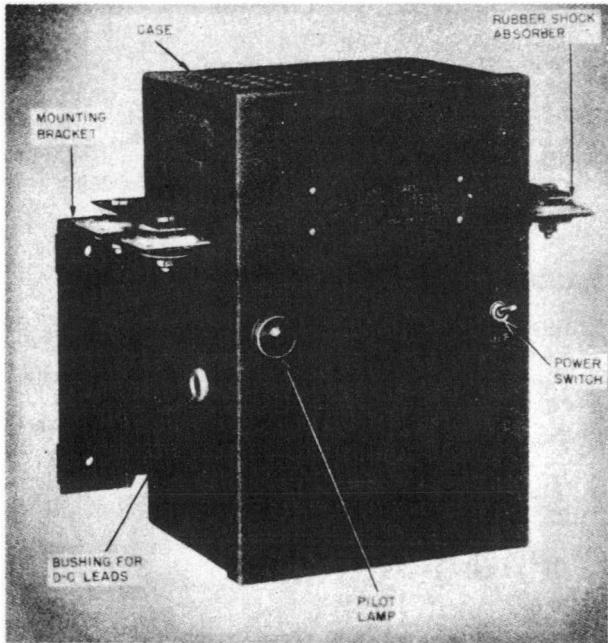
PROCUREMENT COGNIZANCE SHIPS-P-1016

STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1211/U	15 X 21-5/8 X 45-3/4	600
1	Remote Control Box SA-405/U	3-3/4 X 4-1/2 X 5-3/8	2-1/4
2	Technical Manuals		

RECTIFIER



Rectifier PP-125/VT

FUNCTIONAL DESCRIPTION

The PP-125/VT is a full-wave, selenium-disk rectifier capable of converting 95 to 125 v, single ph, 60 cps power into DC for energizing coils of telephone relays and for

pilot lamp circuits, located in mobile fire control trailers.

No field changes in effect at time of preparation (22 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 95 to 125 v, 60 cps, single ph.
OUTPUT: 25 to 36 v DC, 1.5 amp.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

TM11-2529: Technical Manual for RECTIFIER PP-125/VT.

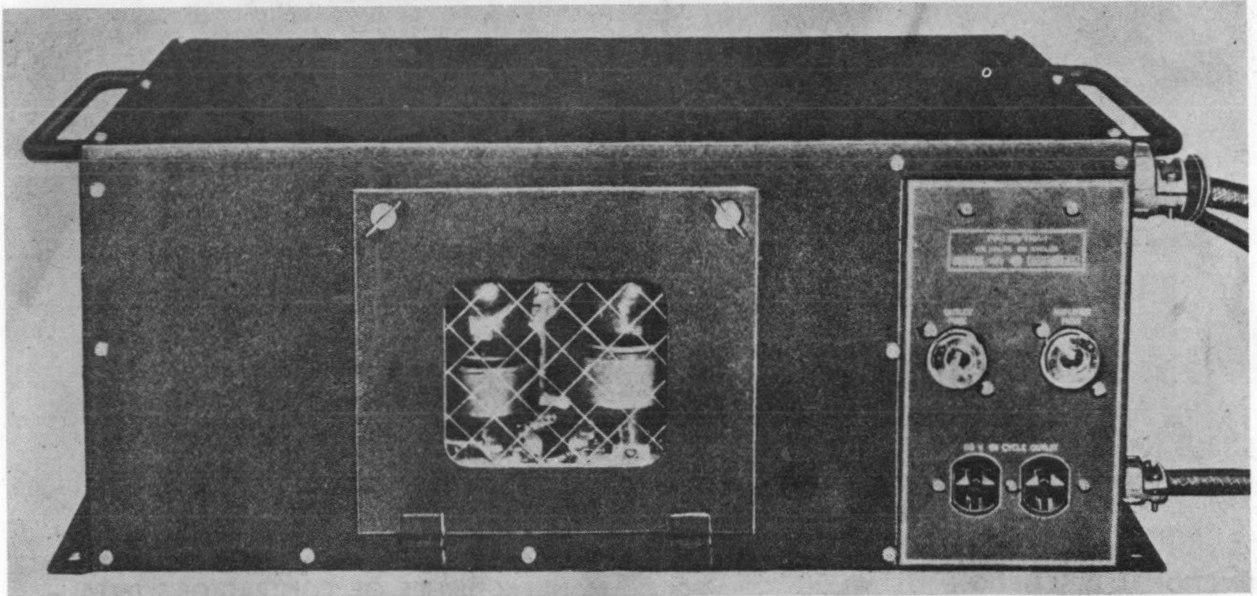
TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier PP-125/VT	6-1/2 X 12 X 12-1/4	28
2	Technical Manual TM11-2529		

POWER SUPPLY

PP-13/TRA-1



Power Supply PP-13/TRA-1

FUNCTIONAL DESCRIPTION

The PP-13/TRA-1 is an alternating-current operated power supply designed to operate in conjunction with Amplifier AM-8/TRA-1. The operating controls for the power supply are located on the front panel of the Amplifier. The PP-13/TRA-1 supplies 115 v, 50 to 60 cps, single ph; 100 volt direct current, bias + 450 volts direct current at 40 ma, +2000 volts direct current at 250 ma to Amplifier AM-8/TRA-1.

No field changes in effect at time of preparation (28 June 1957).

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6X5GT/G (2) 866-A
Total Tubes: (3)

REFERENCE DATA AND LITERATURE

TM11-4505, Technical Manual for Power Supply PP-13/TRA-1.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE: Electronic, full wave.
POWER OUTPUT: 115 v, 50 to 60 cps, 175 w;
100 v, 450, 2000 v dc.
POWER INPUT: 115 v, 50 to 60 cps, 800 w.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

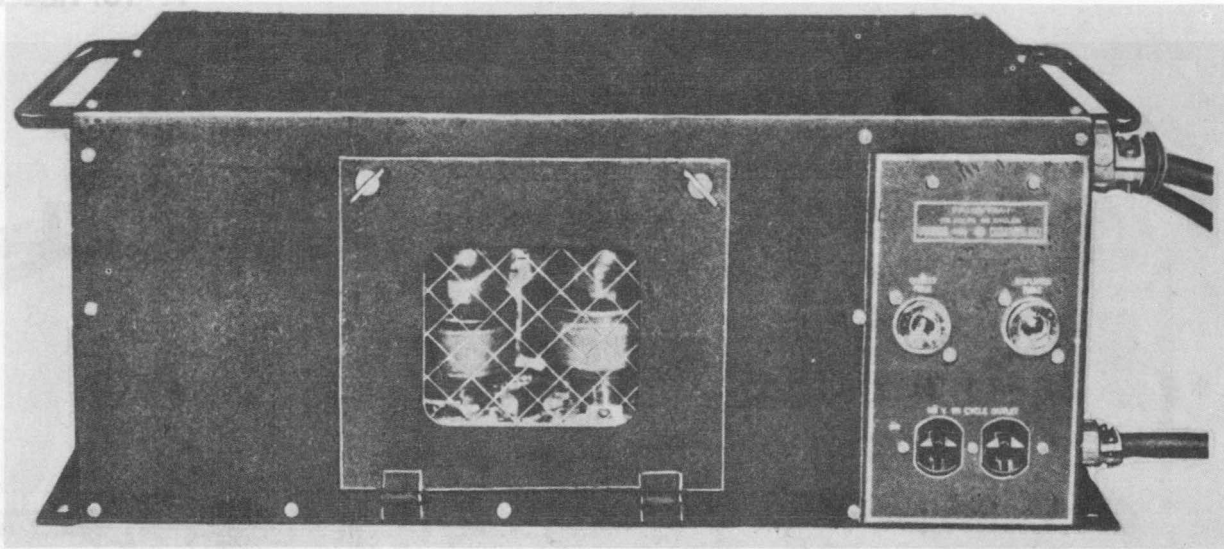
EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-13/TRA-1		

April 1959

Radio-Auxiliary
PP-13C/TRA-1

POWER SUPPLY



Power Supply PP-13C/TRA-1

FUNCTIONAL DESCRIPTION

The PP-13C/TRA-1 is an Alternating Current (AC) operated power supply designed to operate in conjunction with Amplifier AM-8(*)/TRA-1. The operating controls for Power Supply PP-13C/TRA-1 are located on the front panel of Amplifier AM-8(*)/TRA-1.

No field changes in effect at time of preparation (12 June 1959).

RELATION TO OTHER EQUIPMENT

The PP-13X/TRA-1 is interchangeable as a unit w/the PP-13B/TRA-1. The PP-13C/TRA-1 differs from PP-13B/TRA-1 in that all transformers except the highest voltage power transformer are hermetically sealed.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE: Electronic, full wave.
POWER OUTPUT: 115 v, 50 to 60 cps, 175 W;
100 v, 450, 2000 v DC.
POWER INPUT: 115 v, 50 to 60 cps, 800 W.

MANUFACTURER'S OR CONTRACTOR'S DATA

Lear Inc., Grand Rapids, Michigan.
Procurement Order No. 816-MPD-45.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 866A/866 (1) 6X5GT/G
Total Tubes: (3)

No Crystals used.

REFERENCE DATA AND LITERATURE

TM11-4505: Technical Manual for Power Supplies PP-13/TRA-1, PP-13A/TRA-1, PP-13B/TRA-1, PP-13C/TRA-1.

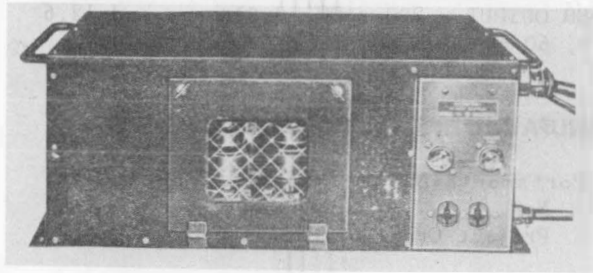
TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO. 12.5

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-13C/TRA-1		

POWER SUPPLY

PP-13E/TRA-1



Power Supply PP-13E/TRA-1

MANUFACTURER'S OR CONTRACTOR'S DATA

Trylon Radio Labs.
Order 11921-Phila-48-77.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 3B28 (1) 6X5GT
Total Tubes: (3)

No Crystals used.

FUNCTIONAL DESCRIPTION

Power Supply PP-13E/TRA-1 is an electronic-type power supply with full-wave rectification designed to supply the necessary operating voltages to Amplifier AM-8/TRA-1.

No field changes in effect at time of preparation (1 July 1959).

REFERENCE DATA AND LITERATURE

TM11-2601: Technical Manual for Radio Sets AN/TRC-1, 1A, 1B, 1C, 1D, 1E and 1G.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT

VOLTAGE: 115 volts AC.
FREQUENCY: 50 to 60 cy.
PHASE: Single.
POWER: 800 watts.

OUTPUT

AC: 115 volts AC, 175 W, 50 to 60 cy.
BIAS: -100 volts DC.
PLATE SUPPLY: +1,900 volts DC, 250 ma.
SCREEN SUPPLY: 450 volts DC, 40 ma.

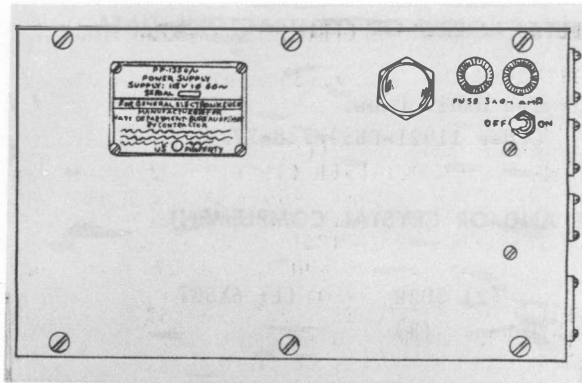
TYPE CLASSIFICATION	
DESIGN COGNIZANCE	SIG C
PROCUREMENT COGNIZANCE	SPEC 71-3022(SIG C)
STOCK NO.	

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-13E/TRA-1	9-3/8 X 14 X 25	130

April 1958

POWER SUPPLY

Radio-Auxiliary
PP-1350/U

Power Supply PP-1350/U

POWER OUTPUT: 200 v DC, 0.016 amp and 12.6 v, 60 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Portsmouth Naval Shipyard, Portsmouth,
N.H.
Project Order No. 20731/55.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

REFERENCE DATA AND LITERATURE

NAVSHIPS 92637: Technical Manual for Power Supply PP-1350/U.

FUNCTIONAL DESCRIPTION

The PP-1350/U is designed to provide plate and filament power for NT-50061 coupler unit, which is used in conjunction with both DU-1 and DW-1 aircraft radio direction finding equipment.

No field changes in effect at time of preparation (12 March 1958).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER SOURCE REQUIRED: 115 v, 60 cps, single ph, 34.29 W max.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

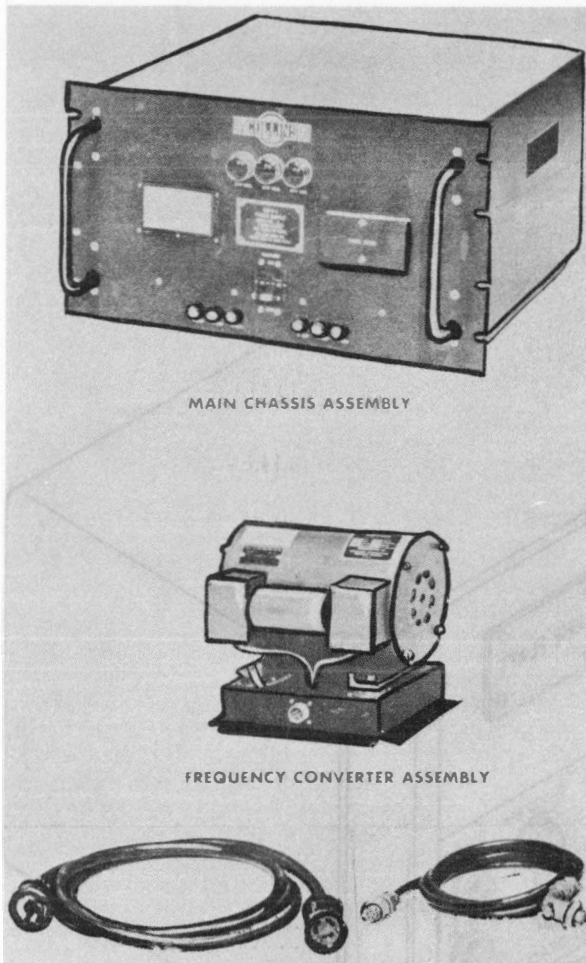
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-1350/U	0.473	6 x 6 x 9	24

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1350/U	5-9/16 x 6 x 12	18.6
1	Input Power Plug AN3102A-1US-1P		
1	Input Cable Clamp AN3057-6		
1	Connection Plug AN3106A-18-12P		
1	Connection Cable Clamp AN3057-10		
1	Audio Input Plug AN3106A-1US-9S		
1	Audio Input Cable Clamp AN3057-6		
1	RF Output Plug UG-941/U		

1.2 PP-1350/U: 1

POWER SUPPLY



MAIN CHASSIS ASSEMBLY

FREQUENCY CONVERTER ASSEMBLY

Power Supply PP-1477(XN-1)/URT

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER INPUT: 115 v, 60 cps, single phase, 1100 W max power.

POWER OUTPUT

VACUUM TUBE CIRCUIT: 600 v DC at 550 ma.

METALLIC RECTIFIER CIRCUIT: 250 v DC at 150 or 300 ma; -65 v DC at 2 ma; -50 v DC at 0.5 ma; 27.5 v DC at 6 amp.

FREQUENCY CONVERTER: 115 v, 400 cps at 1 amp; 18 v, 400 cps at 285 ma; 6 v, 400 cps at 60 ma.

AMBIENT TEMPERATURE: -20°C to +50°C.

AMBIENT HUMIDITY: 0 to 95%.

ALTITUDE: Sea level to 10,000 ft.

MANUFACTURER'S OR CONTRACTOR'S DATA

Collins Radio Company, Cedar Rapids, Iowa.

Contract NObsr 71044

Approximate Cost: \$2350.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 3B28

Total Tubes: (2)

REFERENCE DATA AND LITERATURE

NAVSHIPS 92845: Technical Manual for Power Supply PP-1477(XN-1)URT, (Collins Radio Model 413E-1).

FUNCTIONAL DESCRIPTION

The PP-1477(XN-1)/URT (Collins 413E-1) is designed for fixed station usage and supplies all power necessary to operate the Automatic Antenna Tuner TN-273/URT (Collins 180L-3) and a transceiver.

No field changes in effect at time of preparation (23 October 1956).

TYPE CLASSIFICATION

DESIGN COGNIZANCE COMMERCIAL

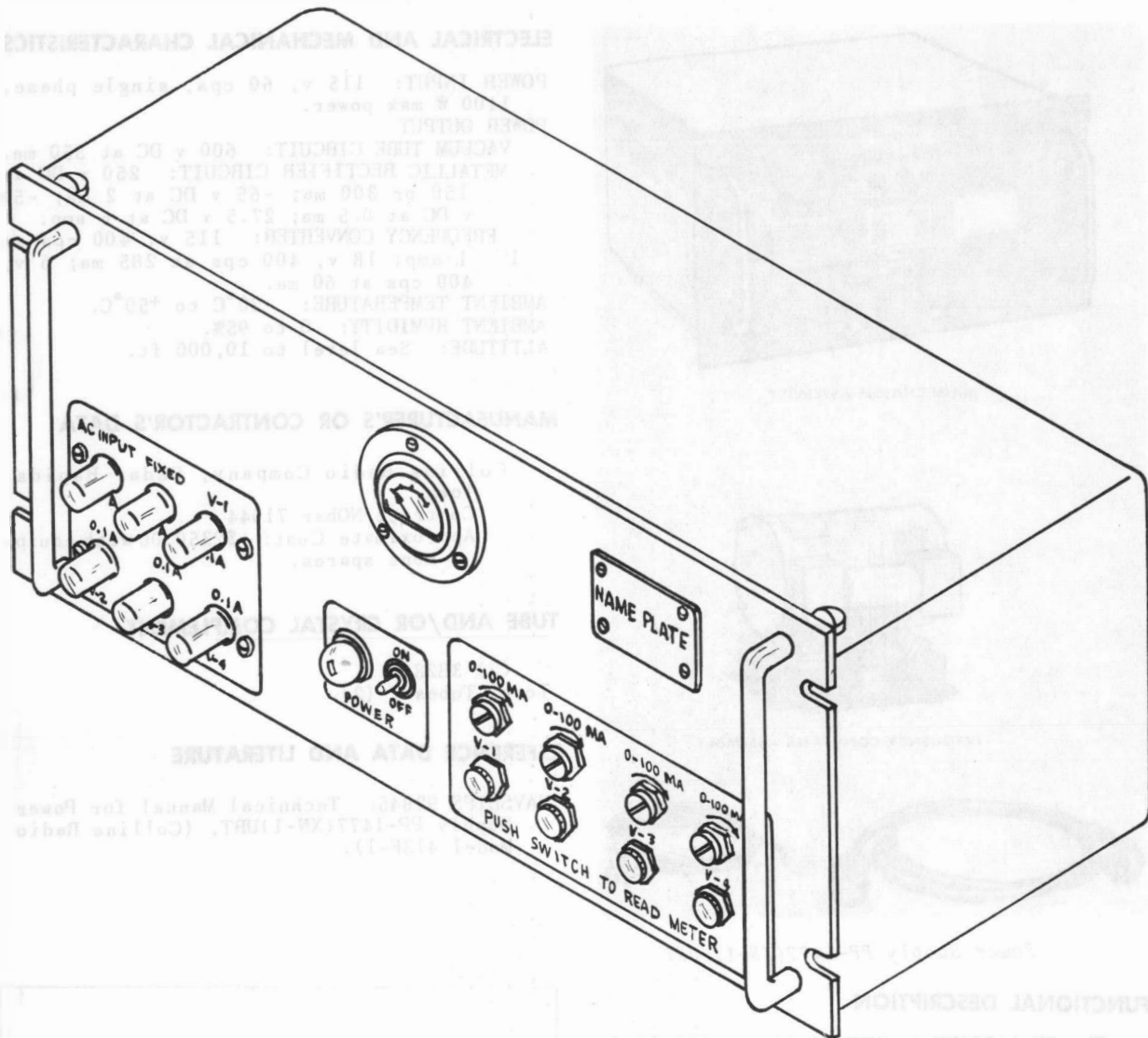
PROCUREMENT COGNIZANCE

STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1477(XN-1)/URT including:	10-1/2 x 19 x 21-1/8	141
1	Frequency Converter Assembly	9-1/4 x 9-1/2 x 9-7/8	43
1	Power Cable	96 1g	2
1	Frequency Converter Cable	96 1g	1

POWER SUPPLY



Power Supply PP-1646/UG

FUNCTIONAL DESCRIPTION

Power Supply PP-1646/UG provides limited D. C. power for 2 local teletypewriter signal lines and 1 power supply for relay control switching devices.

No field changes in effect at time of preparation (12 January 1960).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE: Metallic type; full-wave rectification.

POWER OUTPUT: 115 v DC, 1.5 amp.
115 v DC, 1 to 100 ma.

POWER INPUT: 115, 60 cy, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Naval Security Engineering Facility,
Washington, D. C.
PROJECT ORDER 32700/57.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

Radio-Auxiliary

PP-1646/UG

POWER SUPPLY

REFERENCE DATA AND LITERATURE

Nomenclature Card for POWER SUPPLY PP-1646/
UG.

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO.

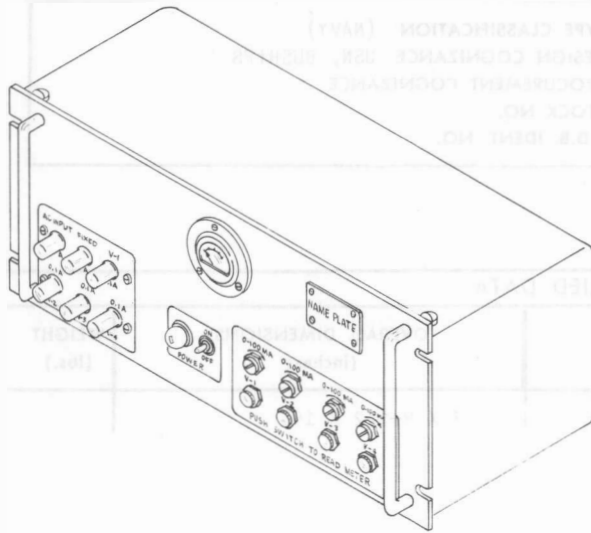
EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1646/UG	7 X 8-1/2 X 19	

September 1960

Radio-Auxiliary

PP-1646A/UG

POWER SUPPLY*Power Supply PP-1646A/UG***FUNCTIONAL DESCRIPTION**

Power Supply PP-1646A/UG provides limited and regulated D. C. power for 4 local teletypewriter signal lines and 1 power supply for relay control switching devices.

No field changes in effect at time of preparation (12 January 1960).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE: Metallic type; full-wave rectifi-

cation.

POWER OUTPUT: 115 v DC, 1.5 amp.

115 v DC, 1-100 ma.

115 v DC, 1-100 ma.

POWER INPUT: 115 v, 60 cy, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Naval Security Engineering Facility,
Washington, D. C.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

REFERENCE DATA AND LITERATURE

Nomenclature Card for POWER SUPPLY PP-1646A/UG.

TYPE CLASSIFICATION (NAVY)

DESIGN COGNIZANCE USN, BUSHIPS

PROCUREMENT COGNIZANCE

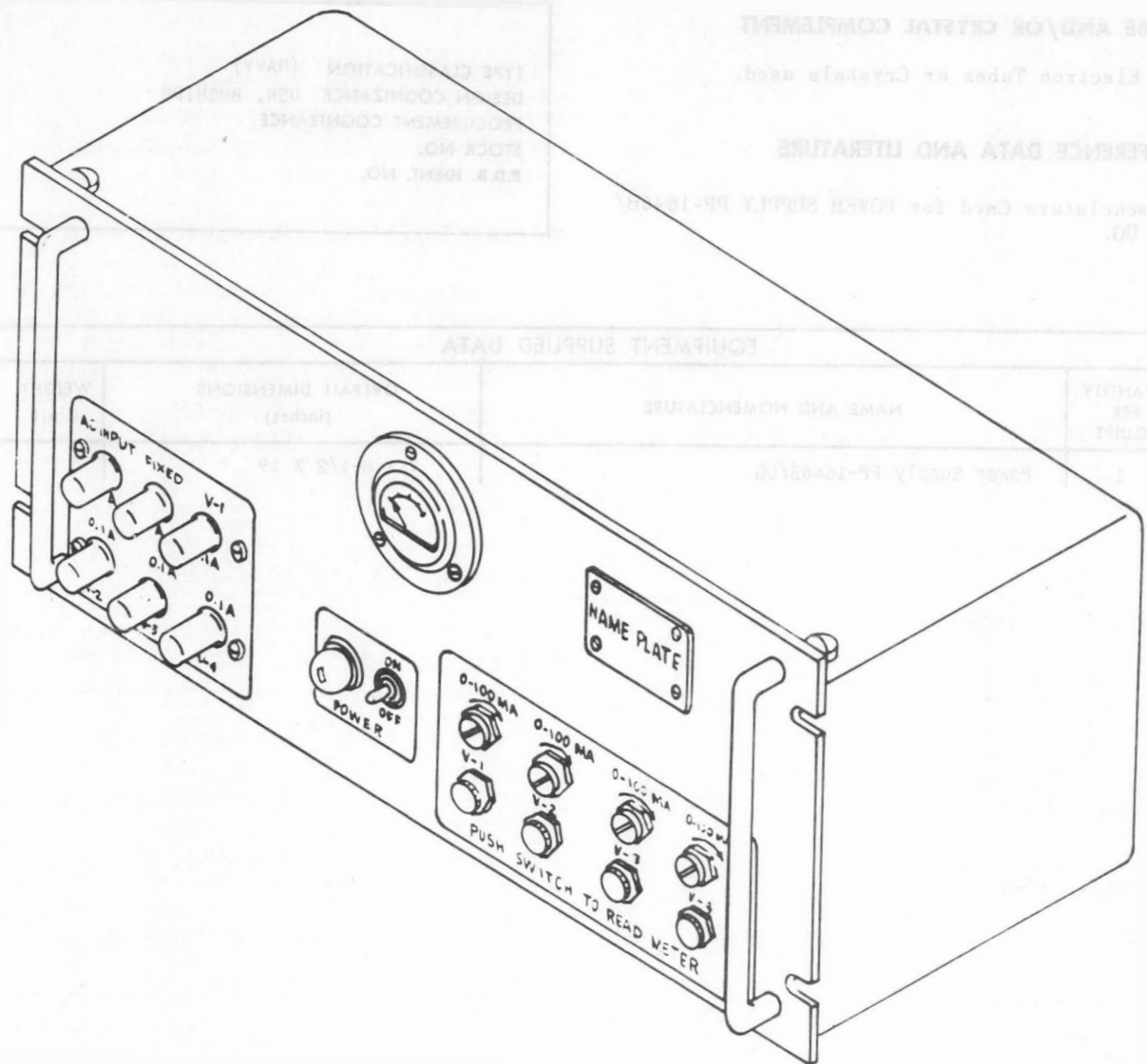
STOCK NO.

R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1646A/UG	7 X 8-1/4 X 19	

September 1960

POWER SUPPLYRadio-Auxiliary
PP-1646B/UG*Power Supply PP-1646B/UG***FUNCTIONAL DESCRIPTION**

Power Supply PP-1646B/UG provides limited and regulated DC power for 4 local teletypewriter signal lines and 1 power supply for relay control switching devices.

No field changes in effect at time of preparation (12 January 1960).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE: Metallic type; full-wave rectifi-

cation.

POWER OUTPUT: 115 v dc, 1.0 amp.

75 v dc, 1 to 75 ma.

POWER INPUT: 115 v, 60 cy, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Naval Security Engineering Facility,
Washington, D. C.

Dwg No. 20F255.

PROJECT ORDER 43708/58.

PP-1646B/UG

POWER SUPPLY

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

REFERENCE DATA AND LITERATURE

Nomenclature Card for POWER SUPPLY PP-1646B/
UG.

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-1646B/UG	7 X 8-1/2 X 19	

June 1961

Radio-Auxiliary

POWER SUPPLY**PP-2124/U****FUNCTIONAL DESCRIPTION**

Power Supply PP-2124/U supplies power to Control-Switching Group AN/SRA-21(V).

No field changes in effect at time of preparation (11 January 1961).

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tube or Crystal data available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Sheet for Power Supply PP-2124/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 95 to 125 v, 60 cyc, single ph.

OUTPUT: 48 v dc at 12 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

Lorian Products Corp., Lorian, Ohio.

Model No. TF602B1.

Contract NObs-3877.

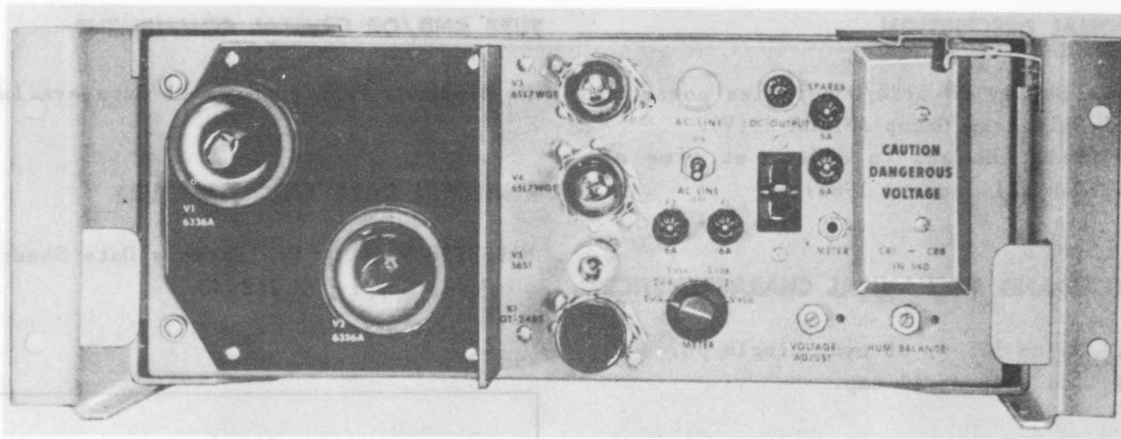
TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.S. IDENT. NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-2124/U	14-1/4 x 23 x 23-11/16	

POWER SUPPLY

PP-2205/UX



Power Supply PP-2205/UX

FUNCTIONAL DESCRIPTION

Power Supply PP-2205/UX is used in Television System AN/GXQ-3(V) and AN/SXQ-2(V) to provide regulated +300 volts dc to other units in each system. The rectifier section receives 115 v ac, steps this voltage up, rectifies it, and supplies 425 v unregulated dc to the series regulator. The series regulator, which is adjusted to supply +300 v, provides this regulated output over wide load-current conditions.

No field changes in effect at time of preparation (24 November 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER REQUIREMENTS: 103 to 127 v, 60 cy, single ph.

OUTPUT RATING: Adjusted over the range from +245 to +340 v dc at load currents of from 85 to 750 ma.

MANUFACTURER'S OR CONTRACTOR'S DATA

General Precision Laboratory Inc., Pleas-

ville, New York.
Contract NObsr-75369.

TUBE AND/OR CRYSTAL COMPLEMENT

- (2) 6336A (2) 6SL7WGT
- (1) 5651 (8) 1N540

Total Tubes (13)

No Crystal used.

REFERENCE DATA AND LITERATURE

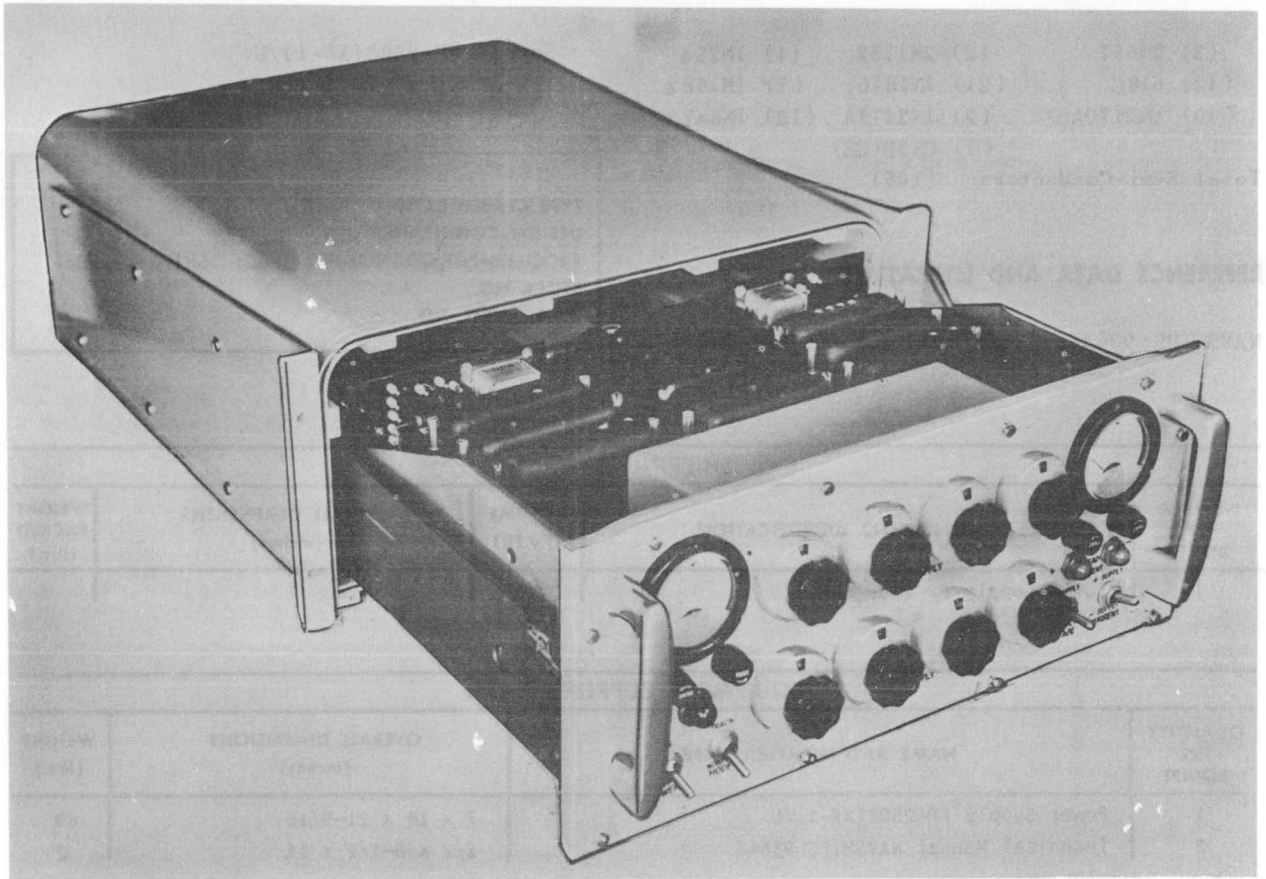
NAVSHIPS 93373(A): Technical Manual for POWER SUPPLY PP-2205/UX.

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-2205/UX	6-3/4 X 14-3/16 X 17	60

June 1961

POWER SUPPLY**PP-2508 (XN-1) /U***Power Supply PP-2508(XN-1)/U***FUNCTIONAL DESCRIPTION**

Power Supply PP-2508(XN-1)/U is intended for use as a precise, highly regulated, very stable, reference voltage for analog-digital, digital-analog, or other computer equipment.

The equipment is completely transistorized and is designed around the principles of a type 0 servo system. A drift stabilization circuit comprised of a solid state commutator, an a-c amplifier, and a demodulator, is included to compensate for the drift of the dual input dc amplifier in the main control loop.

No field changes in effect at time of preparation (12 October 1960).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT VOLTAGE: 117 v rms porm 10.2%.

OUTPUT VOLTAGE: P20 to P30 v dc; M20 to M30

v dc.

LOAD CURRENT: 40 to 400 ma at 20 to 30 v dc.

LOAD POWER FACTOR: Unity.

SWITCHING LOAD: 40 to 400 ma at Unity PF.

STORAGE TEMPERATURE: M62 deg C to P75 deg C.

OPERATING TEMPERATURE: M10 deg C to P60 deg C.

TRANSIENT LOAD RECOVERY TIME: Within 0.01% of final value within 2 usec.

OUTPUT IMPEDANCE: 200 micro-ohms.

LINE REGULATION: 0.002% for porm 10.2% line change.

TRACKING ACCURACY: 1.25 mv.

MANUFACTURER'S OR CONTRACTOR'S DATA

Maico Electronics Inc, Minneapolis, Minn.
Contract NObsr-72792.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes and/or Crystals used.

SEMI-CONDUCTORS

(8) 2N333

(19) 2N338

(4) 2N389

June 1961

PP-2508(XN-1)/U

POWER SUPPLY

(3) 2N697 (2) 2N1232 (4) 1N254
 (12) 618C (21) 1N1876 (7) 1N1882
 (10) 1N2170A (2) 1N2171A (12) 1N647
 (1) C35B(GE)

Supply PP-2508(XN-1)/U.

Total Semi-Conductors: (105)

TYPE CLASSIFICATION (NAVY)
 DESIGN COGNIZANCE USN, BUSHIPS
 PROCUREMENT COGNIZANCE SPEC: SHIPS-V-2986
 STOCK NO.
 R.D.B. IDENT. NO.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93646: Technical Manual for Power

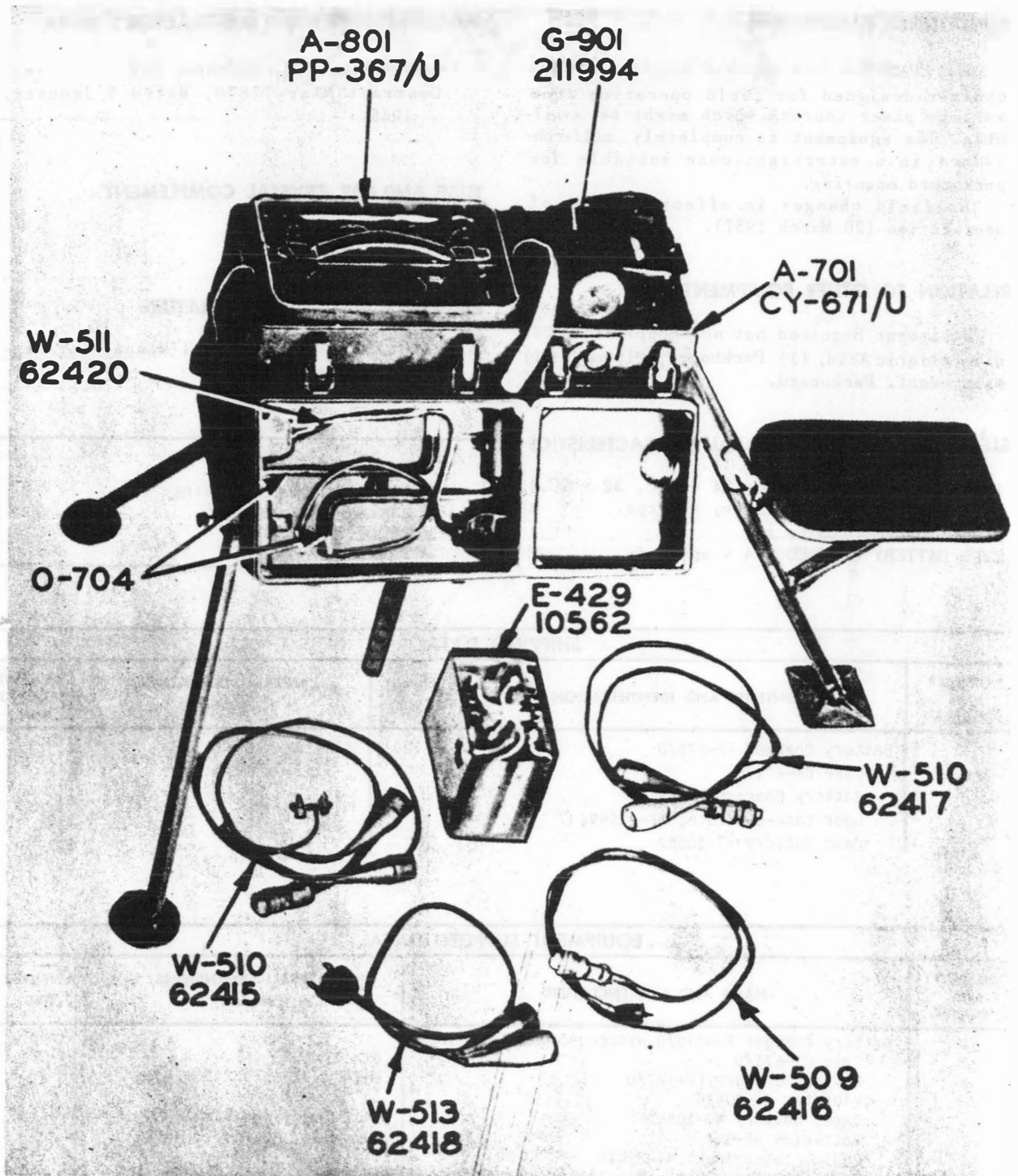
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-2508(XN-1)/U			

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-2508(XN-1)/U	7 x 19 x 21-9/16	69
2	Technical Manual NAVSHIPS 93646	1/2 x 8-1/2 x 11	2

BATTERY CHARGER



Battery Charger PP-270/U

October 1957

Radio-Auxiliary

PP-270/U

BATTERY CHARGER

FUNCTIONAL DESCRIPTION

The PP-270/U is a general purpose battery charger designed for field operation from various power sources which might be available. The equipment is completely self-contained in a watertight case suitable for packboard mounting.

No field changes in effect at time of preparation (20 March 1957).

MANUFACTURER'S OR CONTRACTOR'S DATA

Howard Radio Co, Chicago, Ill.

Contract NXsr-77870, dated 5 January, 1945.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (24 oz) Sulfuric Acid, (1) Packboard, Plywood, (1) Attachment, Packboard.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91139: Technical Manual for Battery Charger PP-270/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 6 v DC, 12 v DC, 24 v, DC, 32 v DC, 115 v, 60 cps; or 115 v, 400 cps.

CHARGING RATE: 5 to 10.

TYPE BATTERY CHARGED: 4 v and 6 v.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Battery Charger PP-270/U Case CX-671/U Battery Charger PP-367/U Gear Case-Generator NT-211994 Case Battery NT-10562	5.09	12 x 22 x 28-1/2	

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Battery Charger PP-270/U w/Accessories		65
1	Case CY-671/U	8 x 17 x 25	23
1	Battery Charger PP-367/U	6-1/4 x 10-1/8 x 10-3/4	26.5
2	Vibrator NT-20635		
1	Case, Battery NT-10562	4-1/4 x 6-1/16 x 6-1/2	10.5
2	Batteries BB-54A		
1	Cable, 115 v Input NT-62416	61 lg	0.5
1	Cable, Battery Input NT-62417	66 lg	
1	Cable, Generator Output NT-62420	31 lg	
1	Cable, Electronic Charger Output NT-62415	36 lg	
1	Cable, Generator to Battery NT-62418	36 lg	
2	Crank, Hand		1

22 August 1962

Cog Service: USN FSN:

POWER SUPPLY PP-2713/UGC

Functional Class:

USA

USN

USAF

TYPE CLASS:

Std

Std

MANUFACTURER'S NAME/CODE NUMBER: Tele-Signal Corp., (10241).



Power Supply PP-2713/UGC

FUNCTIONAL DESCRIPTION:

The Power Supply PP-2713/UGC is designed to provide dc power to four (4) line amplifiers or to three (3) amplifiers and one (1) Metering Unit. The power supply is a standard bridge rectifier circuit having an individual filter resistor and condenser for each Line Amplifier or Metering Unit.

No field changes in effect at time of preparation (13 June 1962).

TECHNICAL CHARACTERISTICS:

TYPE OF RECTIFICATION: Electronic type, Full Wave type.

OUTPUT DATA: DC, M15 v, 300 ma.

OPERATING TEMPERATURE: M10 deg C to P55 deg C.

STORAGE TEMPERATURE: M55 deg C to P85 deg C.

OPERATING POWER RQMT: 115/230 v ac, 50 to 60 cps, single ph; approx 6 W.

PP-2713/UGC POWER SUPPLY

RELATION TO OTHER EQUIPMENT:

The PP-2713/UGC is designed to be used with, but not part of, Amplifier AM-2731/UGC and Metering Unit SB-1178/UGC.

The PP-2713/UGC is designed as part of Telegraph, Terminal Set AN/UGC-60(V).

The PP-2713/UGC is the same as Tele-Signal Corp's. Model no. 126A (commercial).

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Power Supply PP-2713/UGC		4 x 5-1/4 x 11-3/4	4-9/16

REFERENCE DATA AND LITERATURE:

NAVSHIPS 93855: Technical Manual for Power Supply PP-2713/UGC.

NAVSHIPS 93841: Technical Manual for Terminal, Telegraph Set AN/UGC-60(V) of which Power Supply PP-2713/UGC is a part of.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: (4) 1692

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
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PROCUREMENT DATA

PROCURING SERVICE: USN

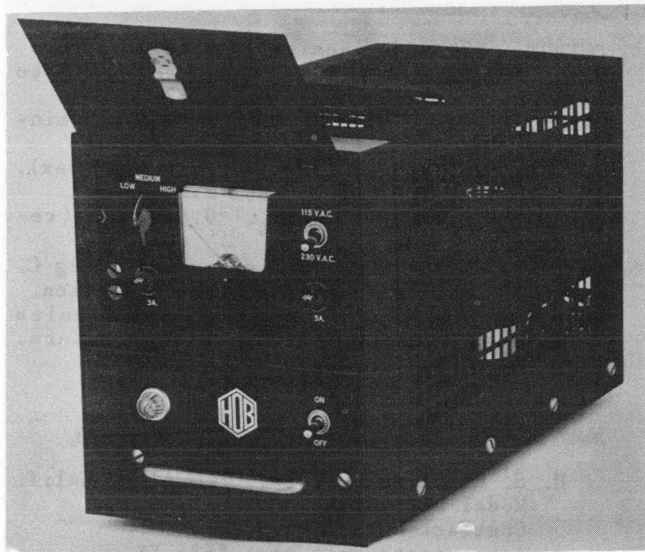
DESIGN COG: USN, BuShips

SPEC &/OR DWG:

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
Tele-Signal Corp. Model no. 126A	Hicksville, N. Y.	NObsr-81467, 17 June 1960	

June 1961

Radio-Auxiliary

POWER SUPPLY**PP-2783/UG**

Power Supply PP-2783/UG

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 105 to 125 v or 210 to 250 v; 25, 50 or 60 cyc.

OUTPUT: 115 v dc at 0.25 to 3 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

H.O. Boehme, Inc., New York, N. Y.
Type No. 10-C.
Contract NObsr-81318(FBM).
Approximate unit cost \$435.00.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes used.

SEMI-CONDUCTORS

(4) 40LF(Sarkes-Tarzian)

Total Semi-Conductors: (4).

No Crystals used.

FUNCTIONAL DESCRIPTION

Power Supply PP-2783/UG operates from single-phase ac sources of 105 to 125 v, or from 210 to 250 v at 25, 50 or 60 cycles per second, while maintaining a constant output of 115 v dc at 0.25 to 3 amps.

It is used as a conventional power supply.

It may be used with any equipment requiring 115 v dc from 0.25 to 3 amps.

No field changes in effect at time of preparation (7 December 1960).

REFERENCE DATA AND LITERATURE

NAVSHIPS 93695: Technical Manual for D.C. Power Supply, Boehme Type 10-C.

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cv.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-2783/UG	1.5	8-3/4 x 13-1/2 x 21-1/4	70

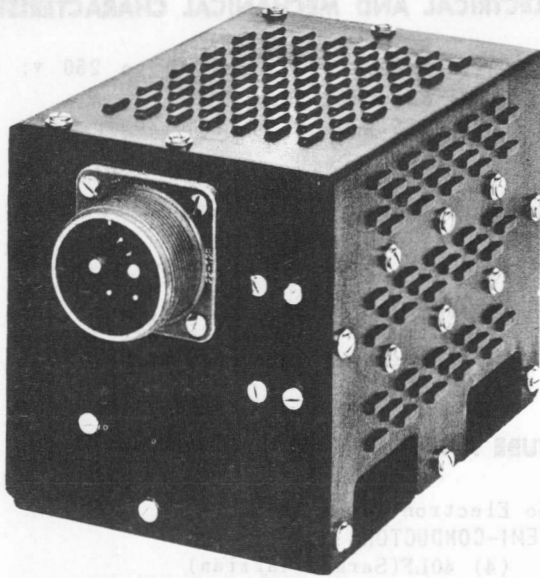
EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-2783/UG	7-3/8 x 9-1/2 x 17	50

June 1961

POWER SUPPLY

Radio-Auxiliary

PP-2788/U*Power Supply PP-2788/U***FUNCTIONAL DESCRIPTION**

Power Supply PP-2788/U is a device for converting power in a 3-phase, 400 cps, 115 v line-to-line system to 28 v dc with a maximum load current of 25 amperes dc. Conversion is accomplished by 12 silicon diodes which rectify the output of a 12 phase transformer, the primary of which is connected across the three phases of the source system.

No field changes in effect at time of preparation (11 January 1961).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 108 to 117 v line to line, 3 ph, 3 wire, 380 to 420 cps.

OUTPUT: P28 v dc (nominal), 0 to 25 amp.
 MAXIMUM OUTPUT VOLTAGE EXCURSION: 26.5 to 30.5 v dc.
 OVERLOAD: 200% for 20 sec; 150% for 2 minutes.
 RIPPLE: 2.5 v peak (max); 0.75 v rms (max).
 EFFICIENCY (FULL LOAD): 80% min.
 POWER FACTOR (FULL LOAD): 0.90 min. (resistive load).
 AMBIENT TEMPERATURE: M55 deg C to P85 deg C.
 COOLING: Natural convection and radiation.
 MOUNTING DIMENSIONS: Four 3/16 in. holes located symmetrically on 3 in. centers.
 EXPECTED LIFE: 10,000 hrs.

MANUFACTURER'S OR CONTRACTOR'S DATA

R. S. Electronics Corp., Palo Alto, Calif.
 Model no. 2671A.
 Contract NObsr-81465.
 Approximate unit cost \$635.55.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes used.
 No Crystals used.

SEMI-CONDUCTORS

(12) 1N249A

Total Semi-Conductors: (12)

REFERENCE DATA AND LITERATURE

NAVSHIPS 93692: Technical Manual for POWER SUPPLY PP-2788/U.

TYPE CLASSIFICATION (NAVY)
 DESIGN COGNIZANCE USN, BUSHIPS
 PROCUREMENT COGNIZANCE
 STOCK NO.
 R.D.B. IDENT. NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-2788/U	0.2	5 x 13 x 10	10.5

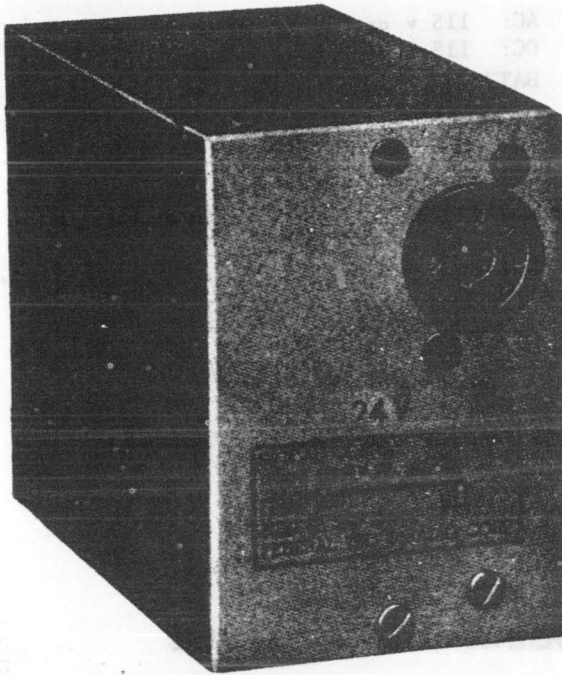
EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-2788/U	4 x 4-1/4 x 5-3/4	7.5

POWER SUPPLY

**PP-281/GRC, PP-282/GRC,
PP-448/GR**

ELECTRICAL AND MECHANICAL CHARACTERISTICS



Power Supply
PP-281/GRC, PP-282/GRC, PP-448/GR

OUTPUT VOLTAGE: 135 v DC.
 OUTPUT CURRENT: 118 ma.
 RATED BATTERY VOLTAGE
 PP-281/GRC: 12.6 v.
 PP-282/GRC: 25.2 v.
 PP-448/GR: 6.3 v.
 INPUT VOLTAGE RANGE
 PP-281/GRC: 10 to 16 v.
 PP-282/GRC: 20 to 32 v.
 PP-448/GR: 5 to 8 v.
 INPUT CURRENT
 PP-281/GRC: 2.25 amp max.
 PP-282/GRC: 1.23 amp max.
 PP-448/GR: 4.1 amp max.
 RIPPLE VOLTAGE: 0.05% max.
 OPERATING TEMPERATURE: Minus 40 Deg C to
 Plus 65 Deg C.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

TM 11-5040: Technical Manual for Power Supplies PP-281/GRC, PP-282/GRC and PP-448/GR.

FUNCTIONAL DESCRIPTION

The PP-281/GRC, PP-282/GRC, and PP-448/GR, are small, light, vibrator type plug-in units. The units derive power from 12, 24 or 6 v vehicular storage batteries, respectively, to supply a voltage of plus 135 v DC at current drains up to 118 ma.

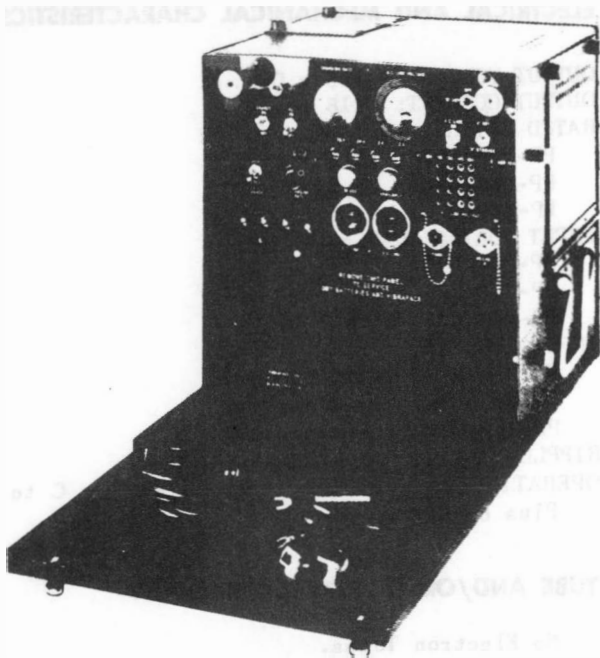
No field changes in effect at time of preparation (26 March 1957).

TYPE CLASSIFICATION
 DESIGN COGNIZANCE TASSA
 PROCUREMENT COGNIZANCE
 STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-281/GRC, PP-282/GRC or PP-448/GR	2-15/16 x 4-1/4 x 5-3/4	5.5

October 1957

POWER SUPPLYRadio-Auxiliary
PP-286/UR*Power Supply PP-286/UR*

AC: 115 v or 230 v, 50 to 60 cps.
 DC: 115 v or 230 v.
 BATTERY: (1) 45 v DC, (4) 1.5 v DC, (1)
 6 v DC.

MANUFACTURER'S OR CONTRACTOR'S DATA

National Electrical Machine Shops Inc,
 Silver Springs, Md.
 Contract: NObsr-30051.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 5U4G
 Total Tubes: (1)

REFERENCE DATA AND LITERATURE

Technical Manual for POWER SUPPLY PP-286/UR.

FUNCTIONAL DESCRIPTION

The PP-286/UR furnishes power to the CMS-R receiver and the CMS-T transmitter either from an AC source or from self contained batteries.

No field changes in effect at time of preparation (21 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS**POWER INPUT**

TYPE CLASSIFICATION
 DESIGN COGNIZANCE BUSH IPS
 PROCUREMENT COGNIZANCE
 STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-286/UR consists of:		
1	Power Cord NT-62384		
1	Battery Cable NT-62383		
1	Storage Battery, 6 v Portable NT-19061		
1	B Battery, 45 v NT-19005		
1	Flashlight Cell, 1.5 v NT-19031		
1	Qt bottle Electrolyte		
2	Technical Manual		

13 August 1962

POWER SUPPLY, TELETYPEWRITER PP-3054/UGC

Cog Service: USN FSN:

Functional Class:

USA

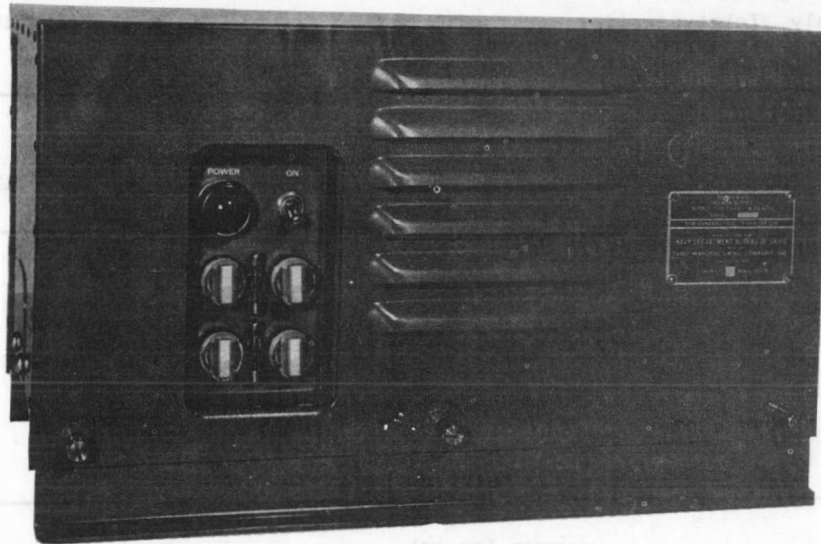
USN

USAF

TYPE CLASS: Used by

Used by

MANUFACTURER'S NAME/CODE NUMBER: Tabet Manufacturing Company, Incorporated, (88829).



Power Supply, Teletypewriter PP-3054/UGC

FUNCTIONAL DESCRIPTION:

The Power Supply, Teletypewriter PP-3054/UGC is designed to produce 124 volts dc when operated from 115 or 230 v ac 50 or 60 cycle supply. The dc voltage output is regulated and will remain constant within plus or minus 5% with an ac voltage input change of plus or minus 10% and within 10% for the specified ac voltage input change when accompanied by a supply frequency change of plus or minus 5%. The dc voltage output will remain regulated to the same degree with a load varying from 0 to 1.0 ampere.

No field changes in effect at time of preparation (14 June 1962).

TECHNICAL CHARACTERISTICS:

OUTPUT VOLTAGE: 124 v dc porm 5% at 1.0 ampere.

OPERATING POWER RQMT: 115 or 230 v dc, 50 to 60 cps, single ph.

PP-3054/UGC POWER SUPPLY, TELETYPEWRITER

RELATION TO OTHER EQUIPMENT:

The PP-3054/UGC is intended for use as a dc supply for the operation of teletypewriters, radio adapters and associated equipments.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Power Supply, Teletypewriter PP-3054/UGC		10-3/16 x 10-3/4 x 17-5/16	59

REFERENCE DATA AND LITERATURE:

NAVSHIPS 94169: Technical Manual for Power Supply, Teletypewriter PP-3054/UGC.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: None used.

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
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PROCUREMENT DATA

PROCURING SERVICE: USN
SPEC &/OR DWG:

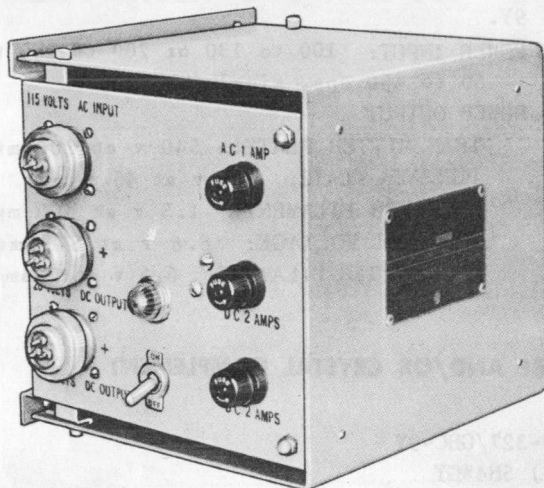
DESIGN COG: USN, BuShips

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
Tabet Mfg. Co., Inc. Model no. TPS-2	Norfolk, Virginia	N0bsr-85270	

April 1958

POWER SUPPLY**PP-326/U**

No field changes in effect at time of preparation (8 October 1957).



Power Supply PP-326/U

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OUTPUT VOLTAGE: 900 ma at 28 v total, or 450 ma 28 v at each output circuit.

POWER SOURCE REQUIRED: 115 v, 50 to 60 cps, single ph, 13 W.

MOUNTING: Wall or bulkhead.

MANUFACTURER'S OR CONTRACTOR'S DATA

Fansteel Metallurgical Corp., North Chicago, Illinois
Contract NObsr-30229, dated 29 June 1946.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

FUNCTIONAL DESCRIPTION

The PP-326/U is a full-wave selenium rectifier type power supply for general electronic use. It provides DC output of 0.90 amp at 28 v for two output circuits. Three transformer primary taps are available to handle 10% variations in primary voltage. The output content is not more than 2% at full load.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91483: Technical Manual for Power Supply PP-326/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-326/U with Plug and Clamps		10 x 10 x 12	20

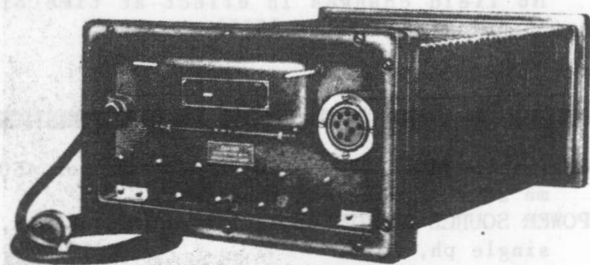
EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-326/U	7 x 7 x 9-5/8	13.0
1	Input Power Plug AN-3106-16S-4S		0.067
1	Input Cable Clamp AN-3057-8		0.044
2	Output Power Plug AN-3106-16S-5P		0.134
2	Output Cable Clamp AN-3057-8		0.088

October 1957

Radio-Auxiliary

POWER SUPPLY PP-327/GRC-9Y, 327A/GRC-9Y, 327 B/GRC-9Y



POWER SUPPLY PP-327/GRC-9Y



Power Supply PP-327A/GRC-9Y & PP-327B/GRC-9Y

Power Supply PP-327A/GRC-9Y and PP-327B/GRC-9Y.

POWER INPUT: 100 to 130 or 200 to 260 v,
60 to 450 cps, single ph; 200 W.

POWER OUTPUT

TRANSMITTER PLATE: 540 v at 100 ma.

RECEIVER PLATE: 105 v at 45 ma.

RECEIVER FILAMENT: 1.5 v at 500 ma.

CONTROL VOLTAGE: 6.6 v at 575 ma.

TRANSMITTER FILAMENT: 6.6 v at 2 amp.

TUBE AND/OR CRYSTAL COMPLEMENT

PP-327/GRC-9Y

(1) 5R4WGY

(1) 6X4W

(1) OA2

Total Tubes: (3)

PP-327A/GRC-9Y and
PP-327B/GRC-9Y

(1) 5R4WGY

(1) 6X4W

(1) 6216

(1) 5751

Total Tubes: (4)

FUNCTIONAL DESCRIPTION

The PP-327/GRC-9Y, PP-327A/GRC-9Y and PP-327B/GRC-9Y are used to supply all voltages required for the operation of Receiver-Transmitter RT-77(*)/GRC-9 which is the main component of Radio Set AN/GRC-9.

Data on this sheet reflects the following changes, FCI (26 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

Power Supply PP-327/GRC-9Y.

Power Input: 100 to 130 or 200 to 260 v,
50 to 450 cps, single ph; 200 w.

POWER OUTPUT:

TRANSMITTER PLATE: 570 v at 105 ma.

RECEIVER PLATE: 108 v at 32 ma.

RECEIVER FILAMENT: 1.6 v at 500 ma.

CONTROL VOLTAGE: 6.7 v at 670 ma.

TRANSMITTER FILAMENT: 6.5 v at 1.9
amp.

REFERENCE DATA AND LITERATURE

TM11-5070: Technical Manual for Power
Supplies PP-327/GRC-9Y, PP-327A/GRC-9Y
and PP-327B/GRC-9Y.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

**PP-327/GRC-9Y, 327A/GRC-9Y, POWER SUPPLY
327 B/GRC-9Y****SHIPPING DATA**

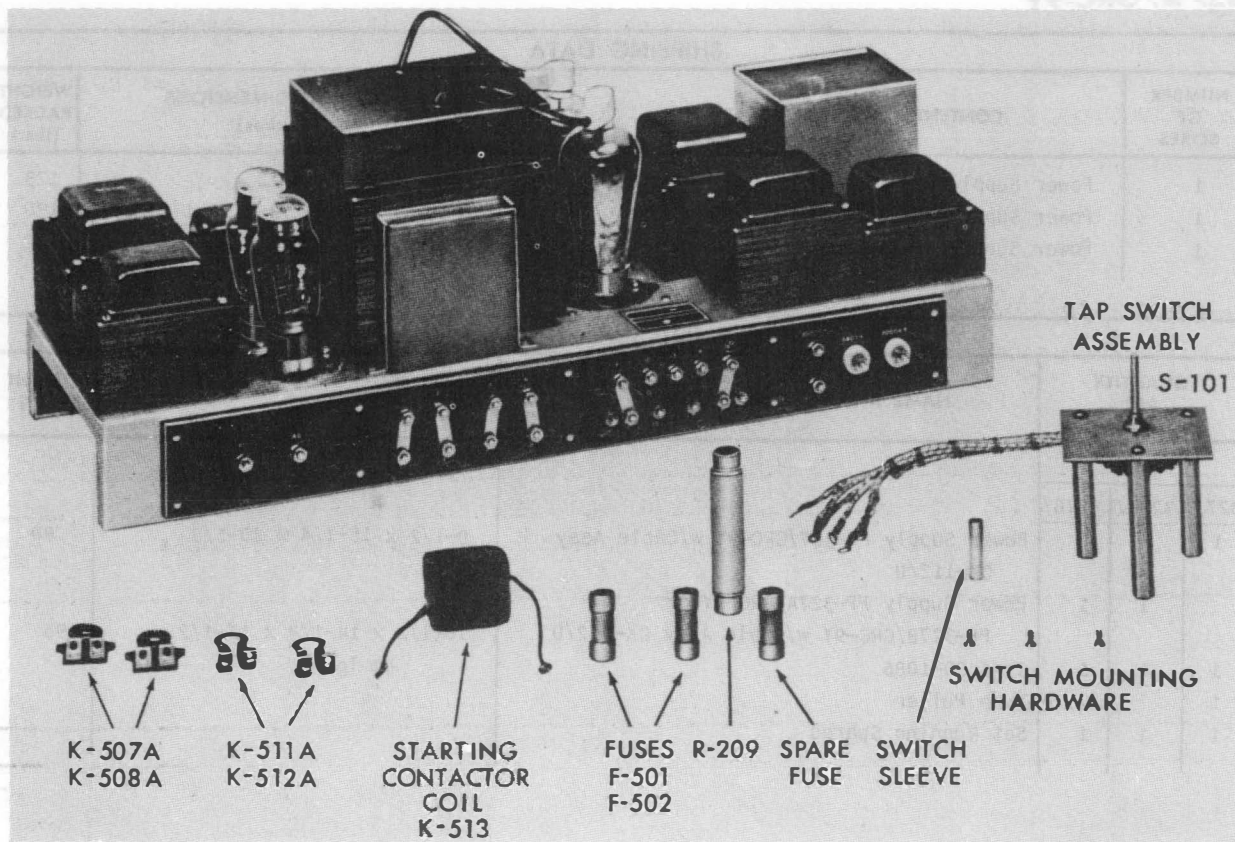
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-327/GRC-9Y	2.3	10 x 17-1/2 x 22	123
1	Power Supply PP-327A/GRC-9Y	4.1	17-3/4 x 18-1/2 x 21-1/2	130
1	Power Supply PP-327B/GRC-9Y	2.94	12-1/2 x 15-3/4 x 25-3/4	122

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT			NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
327/	327A/	327B/			
1			Power Supply PP-327/GRC-9Y w/Cable Assy CX-112/U	8-1/2 x 15-1/4 x 20-5/8	90
	1	1	Power Supply PP-327A/GRC-9Y or PP-327B/GRC-9Y w/Cable Assy CX-112/U	10-1/2 x 14-1/4 x 16-1/2	95
1	1	1	Cord CD-1086	44 lg	
1			Tube Puller		
1	1	1	Set Running Spares		

POWER SUPPLY

PP-338/U



Power Supply PP-338/U

FUNCTIONAL DESCRIPTION

The PP-338/U is designed to modify Navy Model TDE series Radio Transmitting Equipment for operation from 115 v or 230 v, single ph, 60 cps mains. The modification unit employs a transformer rectifier combination to supply power in place of the usual rotary converter. The shape, size and mounting facilities of PP-338/U permits its installation in the space occupied by the motor generator set. All accessory components necessary to convert any Model TDE series equipment, regardless of the power source for which it was set up, is supplied in the modification kit. Model TDE series equipment modified by this kit will be capable of operating from a 115 v or 230 v, single phase, 60 cycle source.

No field changes in effect at time of preparation (19 December 1956).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (1) Technical Manual for TDE, TDE-1, TDE-2; (1) Technical Manual for TDE-3.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER INPUT: 115 v or 230 v \pm 10%, 60 cps, single ph.
 POWER CONSUMPTION: 700 W or 875 va.
 POWER FACTOR: 80%.
 LOAD CURRENT: 7.6 amp at 115 v or 3.8 amp at 230 v.

August 1957

Radio-Auxiliary

PP-338/U

POWER SUPPLY

OUTPUT: 2000 v at 0.175 amp and 550 v at 0.300 amp.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91066: Technical Manual for Power Supply PP-338/U.

MANUFACTURER'S OR CONTRACTOR'S DATA

Hallicrafters Co., Chicago, Ill.
 Contract NObsr-39396, dated 27 June 1947.
 Approximate Cost: \$420.00 with equipment spares.

TYPE CLASSIFICATION
 DESIGN COGNIZANCE BUSHIPS
 PROCUREMENT COGNIZANCE
 STOCK NO.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 886A/886 (2) 5R4GY
 Total Tubes: (4)

SHIPPING DATA

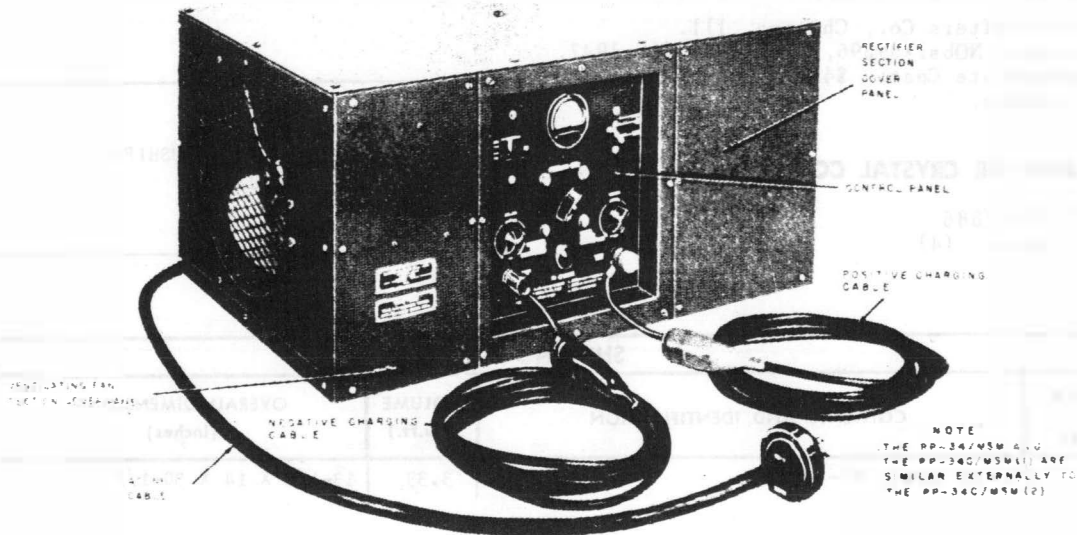
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-338/U	3.33	13-1/2 X 14 X 30-1/2	170

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-338/U	10 X 10-1/2 X 26	120

RECTIFIER POWER UNITS

PP-34/MSM,34C/MSM



Rectifier Power Unit PP-34/MSM,34C/MSM

FUNCTIONAL DESCRIPTION

The PP-34/MSM and PP-34C/MSM converts 105 to 125 volt, single phase, alternating current into direct current for charging lead-acid type storage batteries. The unit may be used to charge from one to four 3-cell, 6-volt storage batteries or the equivalent, simultaneously. The charging rate is adjustable and may be varied between 1-1/2 amperes and 50 amperes, depending upon load.

No field changes in effect at time of preparation (29 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

AC INPUT: 105 to 125 v, 50 to 60 cps, single ph.

DC OUTPUT

VOLTAGE: 2 to 30 v.

CURRENT: 1-1/2 to 50 amperes.

POWER

INPUT: 3400 w AC max w/full DC load.

OUTPUT: 1500 w DC max w/full DC load.

AMMETER

TYPE: DC.

RANGE: 0 to 50 amp.

FAN

TYPE: Propeller; 3 ten in. blades.

MOTOR: 115 v, 60 cps, single ph; 1550 rpm.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

Technical Manuals TM11-965 and TO31W1-1-121 for Rectifier Power Units PP-34/MSM and PP-34C/MSM.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

October 1957

Radio-Auxiliary

PP-34/MSM,34C/MSM

RECTIFIER POWER UNITS

SHIPPING DATA

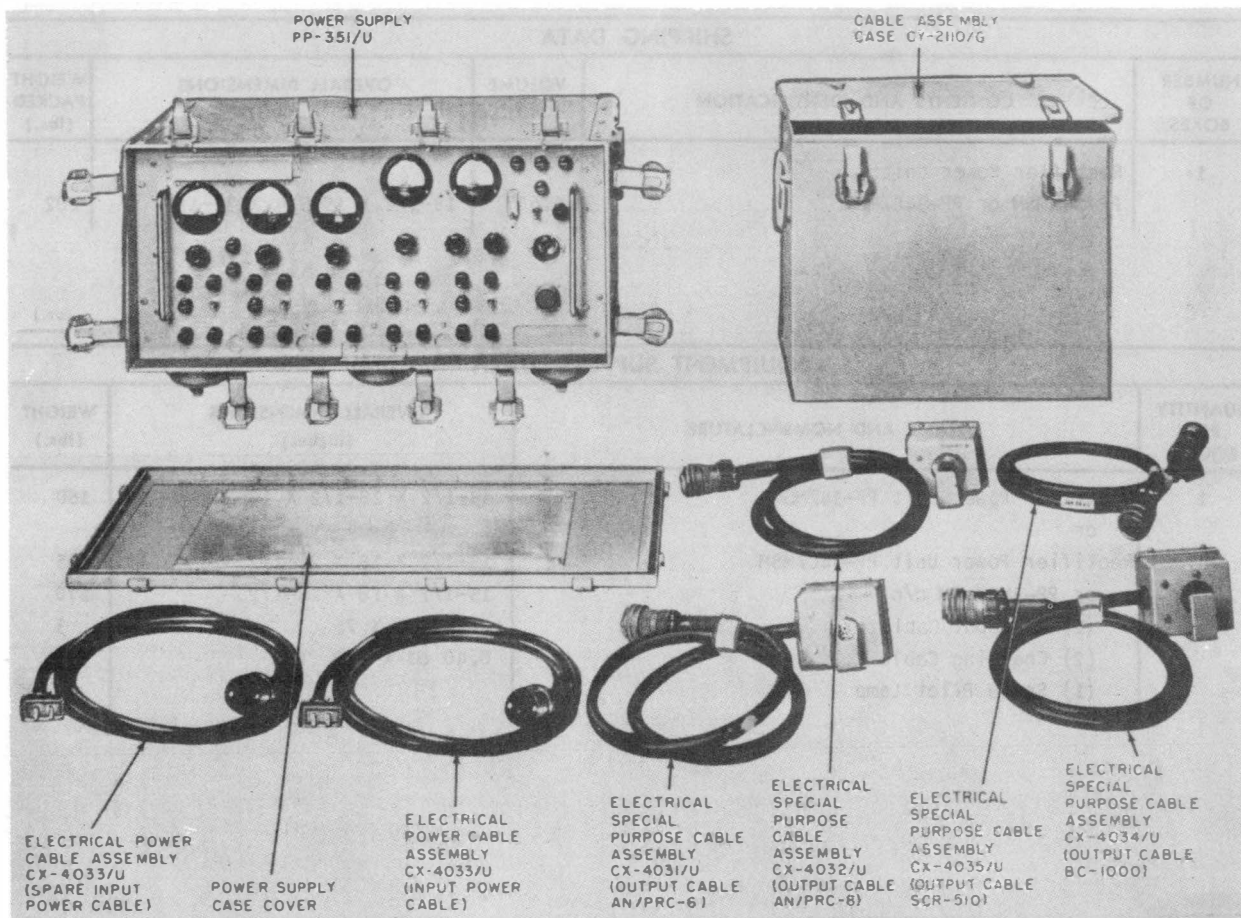
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Rectifier Power Unit PP-34/MSM or PP-34C/MSM	6.607	18-1/2 X 19-3/4 X 31-1/4	202

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier Power Unit PP-34/MSM or	13-1/2 X 28-1/2 X 16	160
1	Rectifier Power Unit PP-34C/MSM or PP-34C/MSM c/o	13-1/2 X 18 X 28-1/2	185
	(1) AC Input Cable	13-1/2 X 18 X 28-1/2	170
	(2) Charging Cable	0.640 od X 75	3
	(1) Spare Pilot Lamp	0.40 od X 148	5

POWER SUPPLY

PP-351/U



Power Supply PP-351/U

FUNCTIONAL DESCRIPTION

The PP-351/U is a transportable power unit containing five independent regulated power supply circuits housed in one case and mounted on a single chassis and panel. Five separate voltage outputs are provided for the operation and testing of various communication equipment such as Radio Sets AN/PRC-6, AN/PRC-8, AN/PRC-9, AN/PRC-10, SCR-510 and SCR-610 and Radio Receiver-Transmitter BC-1000.

No field changes in effect at time of preparation (9 August 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER SUPPLY TYPES: Voltage-regulated electronic and magnetic amplifier.

POWER INPUT: 2.6 amp at 105 to 125 v or 1.3 amp at 210 to 250 v.

POWER OUTPUT

- A1 SUPPLY: Variable output, 0.9 to 1.8 v DC at 0 to 1.5 amp.
 A2 SUPPLY: Two variable ranges. 0.9 to 1.8 v DC at 0 to 1 amp. 2.5 to 8.6 v DC at 0 to 1 amp.
 B1 SUPPLY: Variable output, 22.5 to 150 v DC at 0 to 100 ma.
 B2 SUPPLY: Variable output, 22.5 to 150 v DC at 0 to 100 ma.
 C SUPPLY: Variable output, 0 to 22.5 v DC at 0 to 1 ma.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) OA2WA	(7) 6X4W	(2) 5751
(3) OB2WA	(4) 5651	(2) 6AH6
		(4) 6080

Total Tubes: (24)

Radio-Auxiliary

January 1958

PP-351/U

POWER SUPPLY

REFERENCE DATA AND LITERATURE

TM11-5121, Technical Manual for Power Supply
PP-351/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-351/U	9	18-1/2 x 18-3/4 x 51	217

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply	11-7/16 x 14-1/8 x 25-1/16	97.0
1	Power Supply Case	13-7/16 x 17-1/8 x 28-1/16	34.0
1	Electrical Power Cable Assembly CX-4033/U	76-1/16 lg	1.0
1	Electrical Special Purpose Cable Assembly CX-4031/U	54-1/4 lg	1.5
1	Electrical Special Purpose Cable Assembly CX-4032/U	54-5/16 lg	1.5
1	Electrical Special Purpose Cable Assembly CX-4034/U	54-5/16 lg	1.5
1	Electrical Special Purpose Cable Assembly CX-4035/U	53-7/16 lg	1.0
1	Cable Assembly Case CY-2110/G	11-13/16 x 14-1/2 x 17-3/16	11.0
1	Set of Running Spares	5 x 5 x 6	2.0
2	Technical Manuals TM11-5121		

POWER SUPPLY**PP-380/U****RELATION TO OTHER EQUIPMENT**

Equipment Required but not Supplied: (1) Radio, Telephone and Telegraph Transmitting and Receiving Equipments TCS Series.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER INPUT: 115 v, 60 cps, single ph, 275 W.

OUTPUT: 400 v DC at 0.20 amp.

225 v DC at 0.12 amp.

12 v DC at 1.225 amp.

12.6 v AC at 3.90 amp.

HEAT DISSIPATION: 105 W.

MANUFACTURER'S OR CONTRACTOR'S DATA

Federal Telephone and Radio Corp., East Newark, N.J.

Contract NObsr-42510, dated 30 June 1948.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 5U4G

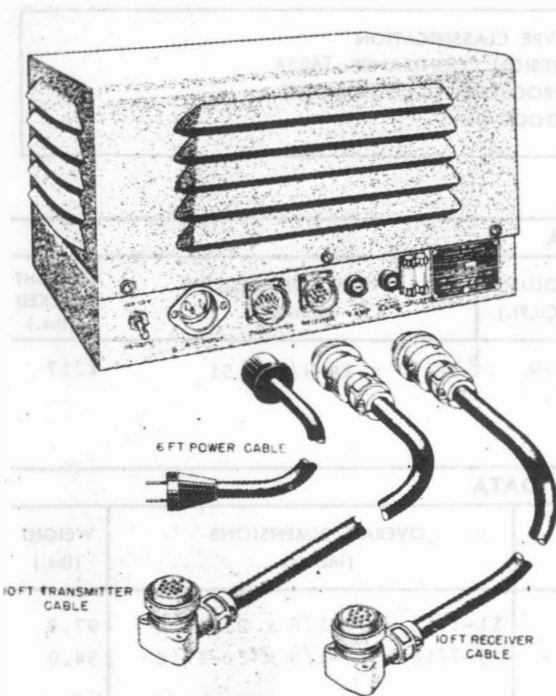
(2) 6X5GT

Total Tubes: (3)

REFERENCE DATA AND LITERATURE

NAVSHIPS 91271: Technical Manual for Power Supply PP-380/U.

TYPE CLASSIFICATION DESIGN COGNIZANCE BUSHIPS PROCUREMENT COGNIZANCE STOCK NO.



Power Supply PP-380/U and Accessories

FUNCTIONAL DESCRIPTION

The PP-380/U is an electronic-type power supply primarily intended for use with the Navy Model TCS series, Radio Telephone and Telegraph Transmitting and Receiving Equipment, except there are no provisions for remote control of the equipment. However, the power supply may be used for other equipments that have similar power supply requirements.

The PP-380/U is designed for non-shipboard uses only.

No field changes in effect at time of preparation (20 March 1957).

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-380/U AC Power Input Cable Transmitter Power Cable Receiver Power Cable Technical Manuals	3	14-1/4 X 17-3/4 X 21-7/8	70

PP-380/U

POWER SUPPLY

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-380/U	9-1/2 X 12-3/4 X 17-3/4	57
1	AC Power Input Cable	72 lg	0.5
1	Transmitter Power Cable	120 lg	2.1
1	Receiver Power Cable	120 lg	1.9
2	Technical Manuals		1.0

April 1958

POWER SUPPLYRadio-Auxiliary
PP-388/U, -388A/U

Power Supply PP-388/U

RIPPLE VOLTAGE: 2.5% of nom output v when measured peak to peak.

REGULATION: Voltage will not increase more than 2 v from 13 v nom, 4 v for 26 v nom with decrease from 500 to 125 W.

LOAD LIMIT: Can operate continuously at 25% overload.

MANUFACTURER'S OR CONTRACTOR'S DATA

Bludworth Marine Div of National-Simplex-Bludworth, Inc, New York, N.Y.

Contract NObsr-39410, dated 30 June 1947 (PP-388/U).

J. H. Keeney and Company, Inc, Chicago, Ill.

Contract NObsr-57077, dated 6 November 1951 (PP-388A/U).

Approximate Cost: \$415.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

Tubes and Crystals: Not Available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91137: Technical Manual for Power Supply PP-388/U.

NAVSHIPS 91773(A): Technical Manual for Power Supply PP-388A/U for Electronics Use.

FUNCTIONAL DESCRIPTION

The PP-388/U and PP-388A/U are general purpose dry disc rectifiers designed to provide 500 watts of direct current power at either 13 or 26 volts, from either a 115 or 230 volt, 60 cycle, alternating current source. They may be used to charge storage batteries in addition to providing DC power to electronic or other equipments.

They contain provisions for automatically supplying power to the load in case of an AC power failure, by "floating" a storage battery across the load and charging the battery when the load is removed.

Data on this sheet reflects the following field changes: FC-1(PP-388/U). (22 November 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS**POWER DATA**

OUTPUT: 500 W at 13 and 26 v DC.

INPUT: 115 or 230 v $\pm 10\%$, 60 cps, 910 W max.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

PROCUREMENT COGNIZANCE MIL-P-16546(SHIPS)

STOCK NO.

Radio-Auxiliary

PP-388/U, -388A/U

POWER SUPPLY

April 1958

SHIPPING DATA

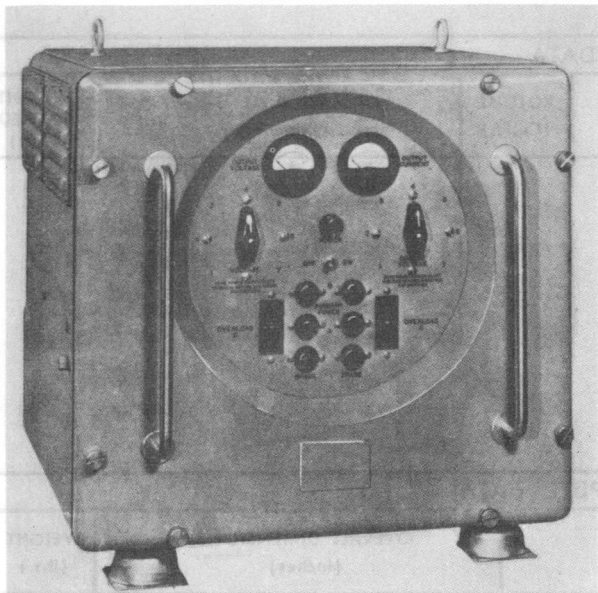
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	PP-338/U Power Supply PP-388/U	15.0	27 x 30 x 32	296
1	Set of Equipment Spares PP-388A/U	2.1	11 x 15 x 22	68
1	Power Supply PP-388A/U including: (1) Set of Equipment Spares	10.3	25-1/2 x 26 x 27	253

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	PP-338/U Power Supply PP-388/U	21-5/8 x 25 x 25-3/8	205
1	Set of Equipment Spares PP-388A/U	9 x 12 x 18	60
1	Power Supply PP-388A/U	21-7/8 x 22-3/4 x 24-3/8	190
1	Set of Equipment Spares	1-3/4 x 6 x 6	0.5

April 1959

Radio-Auxiliary

POWER SUPPLY**PP-388B/U**

Power Supply PP-388B/U

Power Supply PP-388B/U is mounted on four metal electrical equipment legs rather than the four vibration mounts used on Power Supply PP-388A/U.

FUNCTIONAL DESCRIPTION

The PP-388B/U is designed for general use to supply 500 watts of Direct Current (DC) power at either 13 or 26 volts to electronic or other equipments, from either a 115 or 230 volt $\pm 10\%$, 60 cycle, Alternating Current (AC) source. It may also be used to charge storage batteries. Furthermore, an emergency feature is provided, whereby a storage battery is "floated" across the load, and supplies power to the load automatically in case of failure of the Alternating Current (AC) power. Also a "trickle charge" feature, whereby such batteries may be kept fully charged when the load is removed. It can operate continuously on a 25% overload.

Data on this sheet reflects the following field changes: No. 1.

RELATION TO OTHER EQUIPMENT

The PP-388B/U is mechanically and electrically interchangeable w/PP-388A/U, except Silicon rectifiers replace selenium type,

power transformer is redesigned to accommodate Silicon rectifiers and improve temperature rise characteristics of transformer, and relay K-106 is changed to a time delayed type because of better current regulation.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF RECTIFICATION: Metallic type full wave rectification.

POWER OUTPUT: 26 v, 19 amps; 13 v, 38 amps; 500 watts.

POWER INPUT: 115/230 v, 60 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Rauland Borg Corp., Chicago 18, Illinois.
Part No. VM-0472.

Contract NObsr-71767, dated 21 February 1958.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes used.

(4) 1N248

Total Crystals: (4)

REFERENCE DATA AND LITERATURE

NAVSHIPS 91773(A): Technical Manual for Power Supply PP-388A/U and PP-388B/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE MIL-P-16546 (SHIPS)
STOCK NO.
R.D.B. IDENT. NO. 12.5

April 1959

Radio-Auxiliary

PP-388B/U

POWER SUPPLY

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-388B/U	10.56	25-1/2 X 26 X 27	289
1	Set of Equipment Spares	73 cu in.	2 X 6-1/4 X 6-1/4	1

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-388B/U	21-7/8 X 22-3/4 X 23-3/8	190
1	Set of Equipment Spares	1-3/4 X 6 X 6	1/2

POWER SUPPLY

PP-424/U



Power Supply PP-424/U

MANUFACTURER'S OR CONTRACTOR'S DATA

Teletype Corp., Chicago, Illinois.
Type REC-29.
Contract NObsr-59907.
Approximate unit cost \$176.48.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

REFERENCE DATA AND LITERATURE

TM 11-2215: Technical Manual for TT-5/FG
and TT-6/FG.

FUNCTIONAL DESCRIPTION

Power Supply PP-424/U is a table mounted unit intended to be used as a DC supply for teletypewriters.

No field changes in effect at time of preparation (11 January 1961).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 95 to 125 v, 25 to 60 cyc, single ph.

OUTPUT: 120 v dc, 0.200 amp.

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO.

SHIPPING DATA

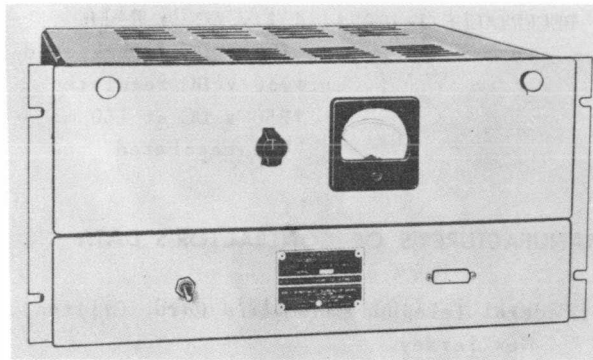
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-424/U	1	11 x 11 x 15	

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-424/U	8 x 9-3/8 x 12-1/2	45

February 1960

Radio-Auxiliary

POWER SUPPLY**PP-454/FRT-5**

Power Supply PP-454/FRT-5

FUNCTIONAL DESCRIPTION

Power Supply PP-454/FRT-5 is an electronic-type power supply with half-wave and full-wave rectification, designed to supply plate and filament voltages to RF oscillator O-91/FRT-5 and Frequency Shift Keyer KY-45/FRT-5.

Data on this sheet reflects the following field changes: F.C. 1.

EQUIPMENT REQUIRED BUT NOT SUPPLIED

(1) Connector, Receptacle NT-49749-A,
(2) Connector Plug, (as req) Wire, Electrical.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER REQUIREMENTS: 115 v or 230 v, 60 cy
±5%, 1 ph.

POWER OUTPUT

RECEPTACLE J-1001: 6.3 v AC at 8.5 amp

+150 v DC regulated
+250 v DC at 250 ma
unregulated
RECEPTACLE J-1002: 6.3 v AC at 6 amp
-100.v DC unregulated
+150 v DC regulated
+250 v DC at 150 ma
unregulated

MANUFACTURER'S OR CONTRACTOR'S DATA

Federal Television Corp., N.Y., N.Y.
Contract NObsr-64059, dated 19 October 1953.
Virginia Electronics Co., Washington, D.C.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6X4 (3) 5R4GY (2) 0A2
Total Tubes: (6)
No Crystals used.

REFERENCE DATA AND LITERATURE

NAVSHIPS 92185: Technical Manual for POWER SUPPLY PP-454/FRT-5.

TYPE CLASSIFICATION (Navy)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

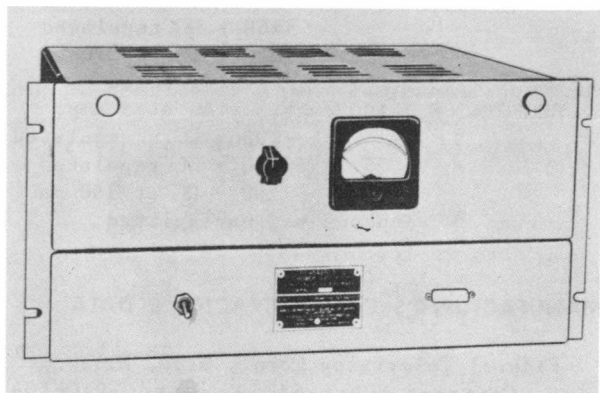
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-454/FRT-5	5.04	17-1/4 X 21-1/2 X 23-1/2	110

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-454/FRT-5 Including:	8-3/4 X 15-1/8 X 19	88
2	Technical Manual		

February 1960

Radio-Auxiliary

POWER SUPPLY**PP-454A/FRT-5***Power Supply PP-454A/FRT-5*

RECEPTACLE J-1002: 6.3 v AC at 6 amp
 -100 v DC unregulated
 +150 v DC regulated
 +250 v DC at 150 ma
 unregulated

MANUFACTURER'S OR CONTRACTOR'S DATA

Federal Telephone and Radio Corp, Clifton,
 New Jersey.

Contract NObsr-49171, dated 24 May
 1950.

FUNCTIONAL DESCRIPTION

Power Supply PP-454A/FRT-5 is an electronic-type power supply with half-wave and full-wave rectification, designed to supply plate and filament voltages to RF oscillator 0-91/FRT-5 and Frequency Shift Keyer KY-45/FRT-5.

No field changes in effect at time of preparation (31 August 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER REQUIREMENTS: 115 v or 230 v, 60 cy
 ±5%, 1 ph.

POWER OUTPUT

RECEPTACLE J-1001: 6.3 v AC at 8.5 amp
 +150 v DC regulated
 +250 v DC at 250 ma
 unregulated

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6X4 (3) 5R4GY (2) OA2

Total Tubes: (6)

No Crystals used.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91404(A): Technical Manual for
 RADIO TRANSMITTING SET AN/FRT-6A.

NAVSHIPS 91457(A): Technical Manual for
 RADIO TRANSMITTING SET AN/FRT-5A.

TYPE CLASSIFICATION (NAVY)

DESIGN COGNIZANCE USN, BUSHIPS

PROCUREMENT COGNIZANCE SPEC: SHIPS-R-54,
 ADDENDUM 1

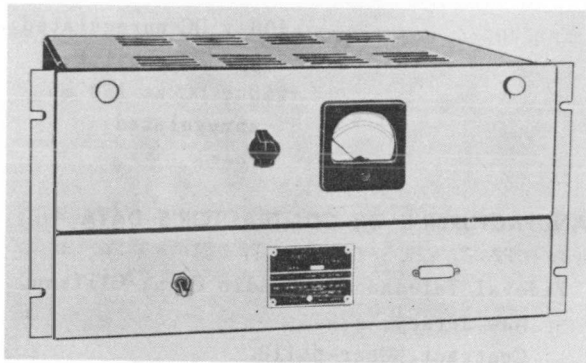
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-454A/FRT-5	8-3/4 X 15-1/8 X 19	85

February 1960

Radio-Auxiliary

POWER SUPPLY**PP-454B/FRT-5**

Power Supply PP-454B/FRT-5

+250 v DC at 150 ma
unregulated

MANUFACTURER'S OR CONTRACTOR'S DATA

Federal Telephone and Radio Corp, Clifton,
New Jersey.

Contract NObsr-52662, dated 27 June
1951.

Contract NObsr-57454, dated 23 June
1952.

FUNCTIONAL DESCRIPTION

Power Supply PP-454B/FRT-5 is an electronic-type power supply with half-wave and full-wave rectification, designed to supply plate and filament voltages to RF oscillator O-91/FRT-5 and Frequency Shift Keyer KY-45/FRT-5.

No field changes in effect at time of preparation (31 August 1959).

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6X4 (3) 5R4GY (2) OA2
Total Tubes: (6)
No Crystals used.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91739: Technical Manual for RADIO
TRANSMITTING SET AN/FRT-6B.

NAVSHIPS 91740: Technical Manual for RADIO
TRANSMITTING SET AN/FRT-5B.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER REQUIREMENTS: 115 v or 230 v, 60 cy
±5%, 1 ph.

POWER OUTPUT

RECEPTACLE J-1001: 6.3 v AC at 8.5 amp
+150 v DC regulated
+250 v DC at 250 ma
unregulated

RECEPTACLE J-1002: 6.3 v AC at 6 amp
-100 v DC unregulated
+150 v DC regulated

TYPE CLASSIFICATION (Navy)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

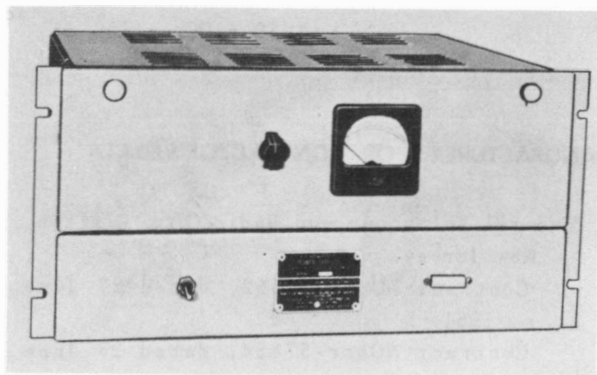
EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-454B/FRT-5	8-3/4 X 15-1/8 X 19	85

February 1960

Radio-Auxiliary
PP-454C/FRT-5

POWER SUPPLY



Power Supply PP-454C/FRT-5

FUNCTIONAL DESCRIPTION

Power Supply PP-454C/FRT-5 is an electronic-type power supply with half-wave and full-wave rectification, designed to supply plate and filament voltages to RF oscillator O-91/FRT-5 and Frequency Shift Keyer KY-45/FRT-5.

No field changes in effect at time of preparation (31 August 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER REQUIREMENTS: 115 v or 230 v, 60 cy
±5%, 1 ph.

POWER OUTPUT

RECEPTACLE J-1001: 6.3 v AC at 8.5 amp
+150 v DC regulated
+250 v DC at 250 ma
unregulated

RECEPTACLE J-1002: 6.3 v AC at 6 amp

-100 v DC unregulated
+150 v DC regulated
+250 v DC at 150 ma
unregulated

MANUFACTURER'S OR CONTRACTOR'S DATA

Federal Telephone and Radio Corp, Clifton,
New Jersey.
Contract NObsr-64118.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6X4 (3) 5R4GY (2) 0A2
Total Tubes: (6)
No Crystals used.

REFERENCE DATA AND LITERATURE

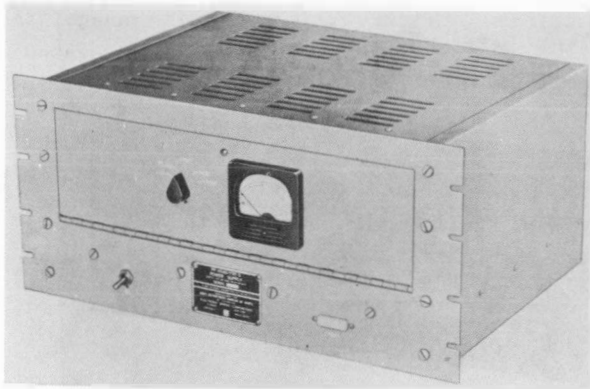
NAVSHIPS 92596(A): Technical Manual for
RADIO TRANSMITTING SET AN/FRT-6C.

TYPE CLASSIFICATION (Navy)
DESIGN COGNIZANCE USN, BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-454C/FRT-5	8-3/4 X 15-1/8 X 19	88

POWER SUPPLY



Power Supply PP-454D/FRT-5

-100 v DC unregulated
+150 v DC regulated
+250 v DC at 150 ma
unregulated

MANUFACTURER'S OR CONTRACTOR'S DATA

Electronic Wiring Corp, Flushing, N. Y.
Contract NObsr-75155.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6X4W (3) 5R4WGA (2) 0A2WA

Total Tubes: (6)

No Crystals used.

FUNCTIONAL DESCRIPTION

Power Supply PP-454D/FRT-5 is an electronic-type power supply with half-wave and full-wave rectification, designed to supply plate and filament voltages to RF oscillator 0-91/FRT-5 and Frequency Shift Keyer KY-45/FRT-5.

No field changes in effect at time of preparation (31 August 1959).

REFERENCE DATA AND LITERATURE

Nomenclature Card for Power Supply PP-454D/FRT-5.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER REQUIREMENTS: 115 v or 230 v, 60 cy, 1 ph.

POWER OUTPUT

RECEPTACLE J-1001: 6.3 v AC at 8.5 amp.
+150 v DC regulated
+250 v DC at 250 ma
unregulated

RECEPTACLE J-1002: 6.3 v AC at 6 amp

TYPE CLASSIFICATION (NAVY)

DESIGN COGNIZANCE USN, BUSHIPS

PROCUREMENT COGNIZANCE SPEC: MIL-R-16198
(SHIPS)

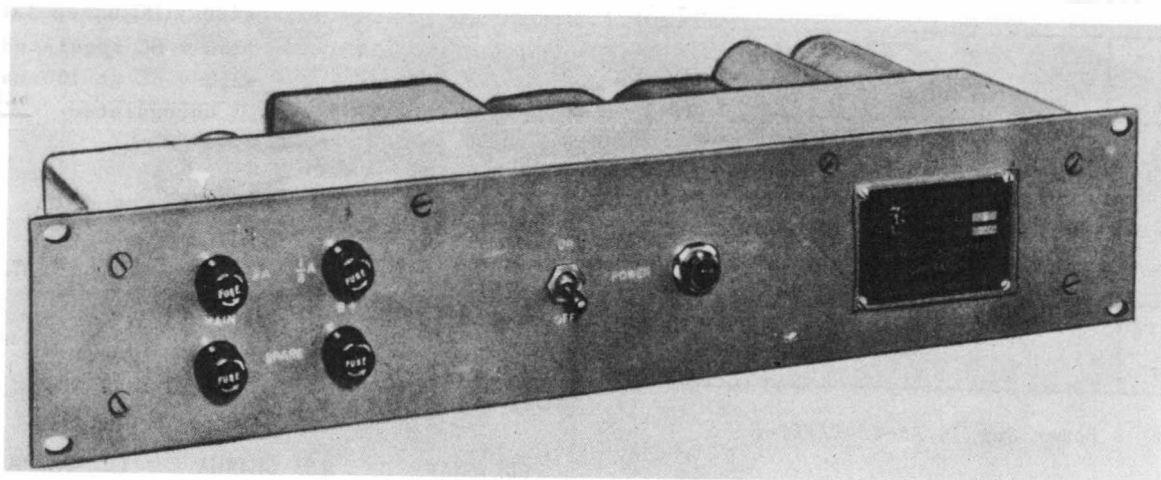
STOCK NO.

R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-454D/FRT-5	8-3/4 X 15-1/8 X 19	88

POWER SUPPLY



Power Supply PP-5030/FR

FUNCTIONAL DESCRIPTION

The PP-5030/FR is designed as a power supply, that provides the filament and plate voltages for the Technical Materiel Corporation's Model RSA-2, RSC-2 and RSD-2. Each unit is identical and can be used interchangeably. Interconnections are provided by an eight (8) conductor cable assembly with polarized fittings.

No field changes in effect at time of preparation (5 March 1959).

RELATION TO OTHER EQUIPMENT

The PP-5030/FR is part of the AN/FRQ-501. The PP-5030/FR is designed to be used with but not part of the AN/FRR-502.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF RECTIFIER: Electronic type.

TYPE OF RECTIFICATION: Full wave rectification.

OUTPUT DATA: 6.3 v, 3 amps ct; 6.3 v, 1.2 amps, 300 v, 70 ma.

INPUT DATA: 110 to 220 v AC, 50 to 60 cps, 65 watts.

MANUFACTURER'S OR CONTRACTOR'S DATA

The Technical Materiel Corp., Mamaroneck, N.Y.

Model RSP-2.

Contract NObsr-64820, dated 20 June 1955.

Contract NObsr-71688, dated 15 February 1957.

Approximate Cost: \$280,000.00 with equipment spares for Contract NObsr-64820.

Approximate Cost: \$479,228.12 with equipment spares for Contract NObsr-71688.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 5Y3GT

Total Tubes: (1)
No Crystals Used.

REFERENCE DATA AND LITERATURE

NAVSHIPS 92600A: Technical Manual for Remote Control Receiver System Model RCR AN/FRA-501 Receiver Control Group.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE RCAF RAD 11-9
STOCK NO.
R.D.B. IDENT. NO. 12.5

Radio-Auxiliary
PP-5030/FR

April 1959

POWER SUPPLY

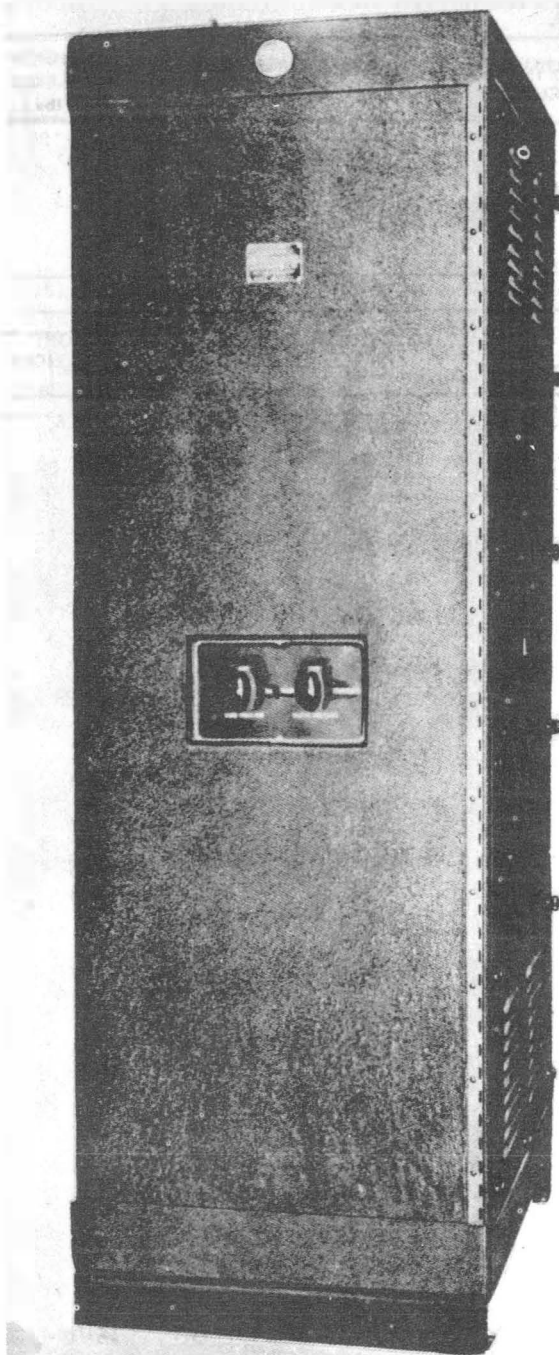
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply Technical Materiel Corp Model RSP-2	1.1	3-1/2 X 8-1/2 X 19	43

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply Technical Materiel Corp Model RSP-2	3-1/2 X 8-1/2 X 19	16

POWER SUPPLY



Power Supply PP-531/UR

220 or 440 v, 3 ph, 60 cps, the PP-531/UR supply furnishes the keying, bias, screen and plate voltages for the TBA units.

Primary purpose of the PP-531/UR unit is for replacement of the TBA motor-generator set with which it may also be used as an alternate supply. The rectifier unit is capable of being controlled by the TBA starting voltage in the same manner as the motor generator set.

Data on this sheet reflects the following field changes, FC 1 (20 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT

VOLTAGE: 220/440 v AC.
PHASE: 3.
FREQUENCY: 60 cps.
POWER: 13/6.5 mp.

OUTPUT VOLTAGE

KEYING AND BIAS RECTIFIER: -115 v DC.
AUXILIARY PLATE RECTIFIER: +500 v DC.
MAIN PLATE RECTIFIER: +1250 v, +2500 v DC.

OUTPUT CURRENT

KEYING AND BIAS RECTIFIER: 1.6 amp.
AUXILIARY PLATE RECTIFIER: 0.55 amp.
MAIN PLATE RECTIFIER: 0.44, 0.98 amp.
STARTING VOLTAGE: 115 v AC.
POWER FACTOR: 0.98.

MANUFACTURER'S OR CONTRACTOR'S DATA

Radio Corp of America, Camden, N.J.
Contract NObsr-43453, dated 30 June 1949.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 3B28 (8) 4B32
Total Tubes: (10)

REFERENCE DATA AND LITERATURE

NAVSHIPS 91374: Technical Manual for Power Supply PP-531/UR.

FUNCTIONAL DESCRIPTION

The PP-531/UR is a rectifier type unit designed for use with the Model TBA series Radio Equipment. Operating from inputs of

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

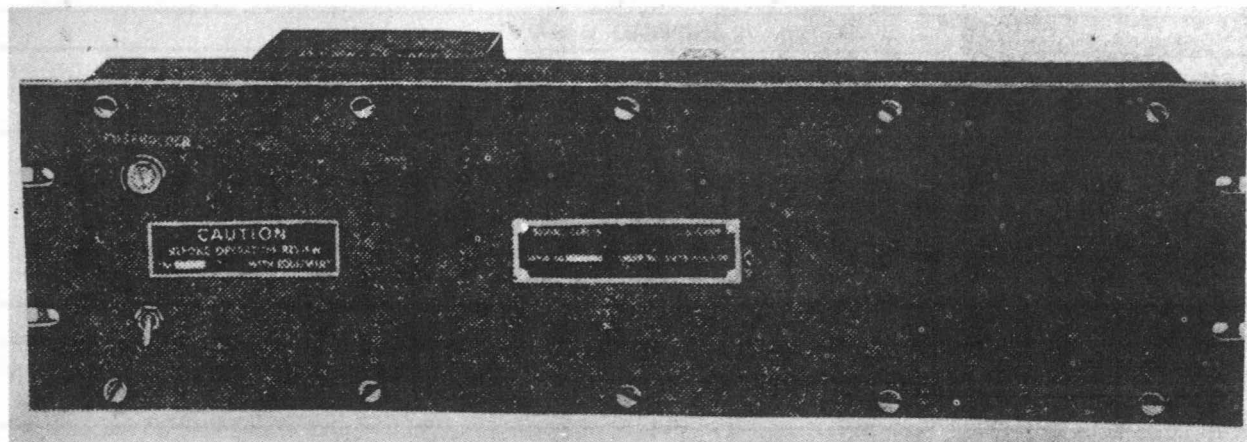
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-531/UR	72.3	36-1/4 X 42-1/4 X 81-5/8	1185
1	Equipment Spares	1.2	7 X 15-1/4 X 20	35

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-531/UR	25 X 31 X 72	970
	Equipment Spares	6 X 12 X 18	24

POWER SUPPLY



Power Supply PP-597/U

FUNCTIONAL DESCRIPTION

Total Tubes: (1)

The PP-597/U is designed to supply the plate and filament voltages required by Antenna Coupler CU-119A/FR or other equipment of similar design and characteristics.

No field changes in effect at time of preparation (22 March 1957).

REFERENCE DATA AND LITERATURE

TM11-958: Technical Manual for POWER SUPPLY PP-597/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 115/230 v, 50 to 60 cps.
 OUTPUT: 125 v DC; 200 ma; 6.3 v AC, 6 amp.

TYPE CLASSIFICATION
 DESIGN COGNIZANCE TASSA
 PROCUREMENT COGNIZANCE
 STOCK NO.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 5U4G

SHIPPING DATA

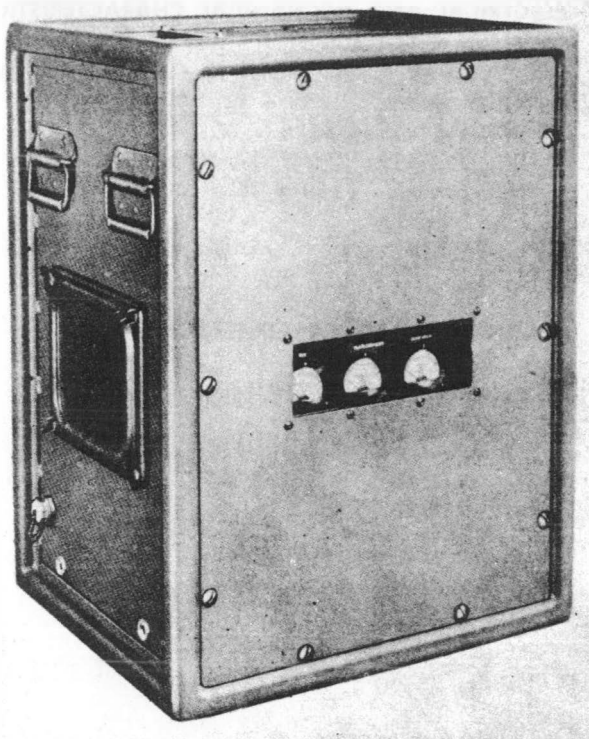
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-597/U	0.52	6 x 7-1/2 x 20	26.38

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-597/U	5-1/8 x 6-7/8 x 18-7/8	24.38

POWER SUPPLY

PP-638/U



Power Supply PP-638/U

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER OUTPUT

DC FOR PLATE SUPPLY

AM-494/GR: 1100 v at 340 ma.

AM-495/GR: 1100 v at 320 ma.

DC FOR SCREEN SUPPLY

AM-494/GR: 230 v at 60 ma.

AM-495/GR: 225 v at 40 ma.

AC FOR FILAMENT SUPPLY: 6 v at 5.2 amp.

POWER INPUT: 115 or 230 v, 60 cps, 660 w.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 3B28

(1) 6Y6G

Total Tubes: (3)

REFERENCE DATA AND LITERATURE

TM11-992: Technical Manual for Power Supply
 PP-638/U.

FUNCTIONAL DESCRIPTION

The PP-638/U is designed to supply and control all the necessary power for the operation of Radio Amplifier AM-494/GR or AM-495/GR in a fixed station radio set, such as Radio Set AN/TRC-28 or AN/TRC-22. The use of a r-f amplifier increases the power output for transmission from 45 to 250 w.

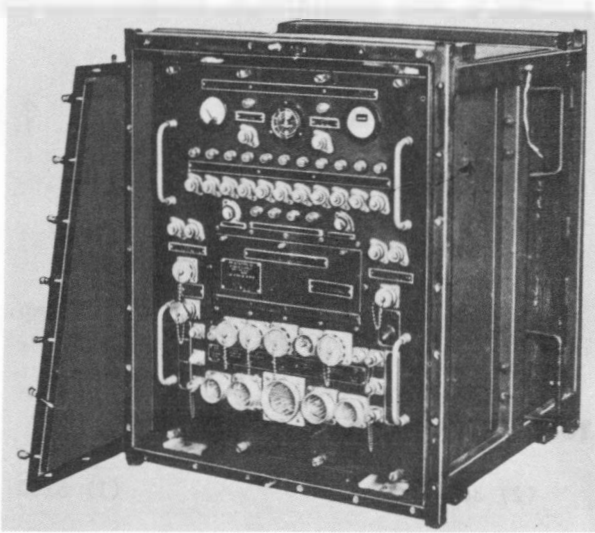
No field changes in effect at time of preparation (20 March 1957).

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-638/U	16-1/2 x 20-1/4 x 26-3/4	173
1	Set Running Spares		

February 1960

Radio-Auxiliary
PP-674/TPS-1D**POWER SUPPLY***Power Supply PP-674/TPS-1D***FUNCTIONAL DESCRIPTION**

The PP-674/TPS-1D is designed to provide all the positive and negative Direct Current (DC) potentials, up to 450 volts, for the operation of any other unit(s) of the AN/TPS-1D system. The unit also houses a Control Chassis that contains timing and control circuit relays.

No field changes in effect at time of preparation (11 June 1959).

RELATION TO OTHER EQUIPMENT

The PP-674/TPS-1D is designed as part of AN/TPS-1D.

EQUIPMENT REQUIRED BUT NOT SUPPLIED

(1) Power Unit (Varies w/using service)
115 v $\pm 5\%$, 400 cps $\pm 4\%$, single ph, 350 watts.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF DISK: Electronic and metallic disk.
POWER OUTPUTS: +450 v DC, 90 mils; +300 v DC, 165 mils; +230 v DC, 60 mils; +200 v DC, 50 mils; 150 v DC, 495 mils; +27.5 v DC, 5 amps; -150 v DC, 130 mils; -300 v DC, 16 mils.
POWER INPUTS: 115 v, single, 400 cps.

MANUFACTURER'S OR CONTRACTOR'S DATA

Raytheon Mfg Co., Waltham, Mass.
Type No.1591.
Contract NObsr-43457.
Contract NObsr-57464, dated 21 June 1952.

TUBE AND/OR CRYSTAL COMPLEMENT

(6) 5R4WGY (2) 6AH6
(3) 6AS7G (3) 6Y6G
(3) OA2
Total Tubes: (17)
No Crystals used.

REFERENCE DATA AND LITERATURE

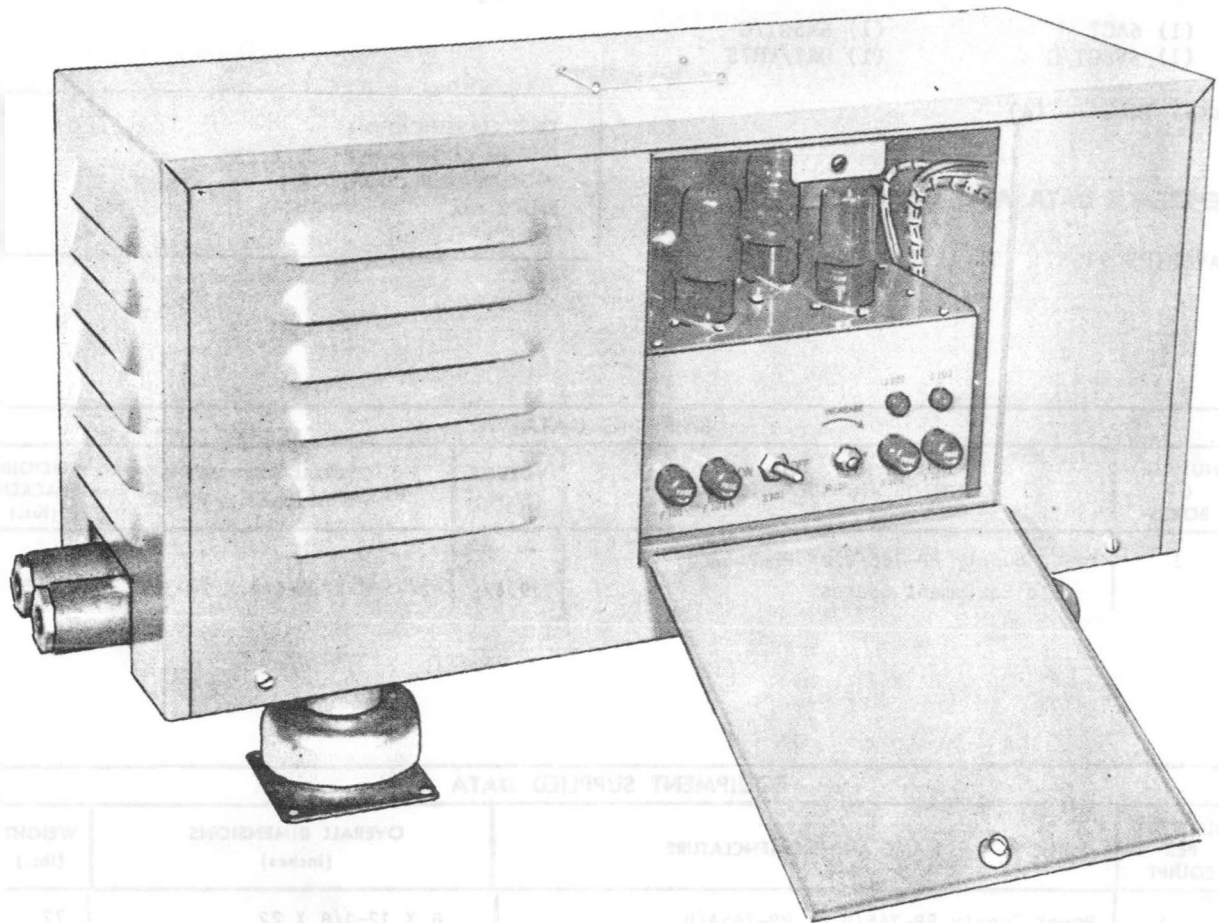
NAVSHIPS 91902(A): Technical Manual for Power Supply PP-674/TPS-1D.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE BUSHIPS SPEC CS-1241A,
STOCK NO. SHIPS-R-81
R.D.B. IDENT. NO. 12.5

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-674/TPS-1D	24 X 24 X 29	242
1	Set of Interconnecting Cables		
2	Technical Manual NAVSHIPS 91902(A)	1/2 X 8-3/4 X 11-1/4	

POWER SUPPLY

Radio-Auxiliary
PP-765/U,
PP-765A/U

Power Supply PP-765/U

FUNCTIONAL DESCRIPTION

The PP-765/U or PP-765A/U is a voltage regulated power supply for use with teletypewriter and converter equipment. Rectification is thru use of a selenium rectifier, and a vacuum tube rectifier operates the control section of the supply.

Data on this sheet reflects the following field changes, FCI (20 March 1957).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (1)

Input and Output power wiring, (1) Ground Cable.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

VOLTAGE OUTPUT: 120 v DC ± 1.5 v, 0 to 1.0 amp.

POWER SOURCE REQUIRED: 115/230 v, 50 to 60 cps, single ph, 225 w, 0.56 power factor.

MANUFACTURER'S OR CONTRACTOR'S DATA

Power Equipment Co., Detroit, Mich.
Contract NObsr-52393, dated 9 May 1951.
Contract NObsr-64180.

Radio-Auxiliary

PP-765/U,
PP-765A/U

POWER SUPPLY

TUBE AND/OR CRYSTAL COMPLEMENT

Supply PP-765/U and PP-765A/U.

- (1) 6AC7
- (1) 6V6GT/G
- (1) 6X5GT/G
- (1) OA3/VR75

Total Tubes: (4)

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSH IPS
PROCUREMENT COGNIZANCE
STOCK NO.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91557: Technical Manual for Power

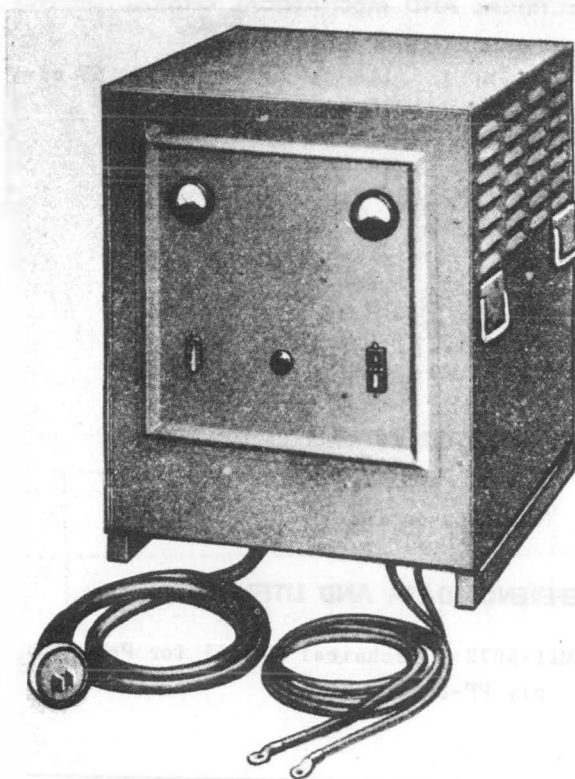
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-765/U or PP-765A/U and Equipment Spares	19.6	24-1/8 X 26-1/4 X 34-3/8	375

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-765/U or PP-765A/U	8 X 12-1/8 X 22	72
2	Technical Manuals		
1	Set of Equipment Spares		51

October 1957

BATTERY CHARGERRadio-Auxiliary
PP-775/U,775A/U*Battery Charger PP-775/U***FUNCTIONAL DESCRIPTION**

The PP-775/U and PP-775A/U are a modified constant charging unit designed to supply DC for charging or floating nickel-cadmium stor-

age batteries. The charger may be operated from any source of 105 to 125 v, 58 to 62 cps, single ph, that is capable of carrying sustained load of 50 ampere. A wooden case and mounting base is supplied with each charger.

Data on this sheet reflects the following field changes, FC 2 (22 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT: 105 v to 125 v, 58 to 62 cps, single ph.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

TM11-989: Technical Manual for Battery Chargers PP-775/U and PP-775A/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Battery Charger PP-775/U		31-1/2 X 35-1/2 X 38	535
1	Battery Charger PP-775A/U		31-1/2 X 35-1/2 X 47	592

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Battery Charger PP-775/U	25-7/8 X 26-1/4 X 30-3/4	440
1	Battery Charger PP-775A/U	25-7/8 X 26-1/4 X 40	471

POWER SUPPLY

ELECTRICAL AND MECHANICAL CHARACTERISTICS

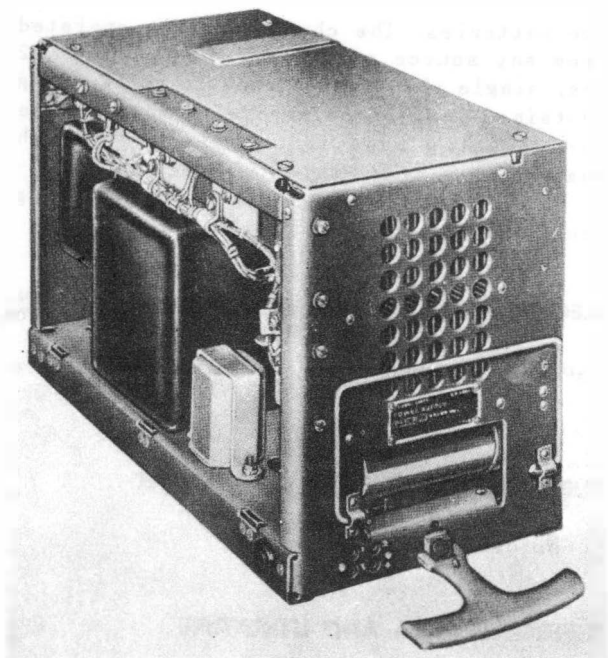
POWER INPUT: 115 or 230 v, 50 to 65 cps,
single ph, 230 va.
POWER OUTPUT AVAILABLE:
500 V DC: 250 amp.
250 V DC: 70 amp.
1.35 V DC: 1.0 amp.
1.25 V DC: 2.1 amp.
-25 V DC: 5 amp.
6 V DC: 0.3 amp.
6.3 V AC: 0.9 amp.
6.3 V AC: 2.1 amp.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

TM11-5072: Technical Manual for Power Supply PP-804/U.



Power Supply PP-804/U

FUNCTIONAL DESCRIPTION

The PP-804/U is a 115 v or 230 v, 60 cps, single ph, transformer-type power supply, designed to provide operating power for Radio Transmitter T-416/GR or T-417/GR.

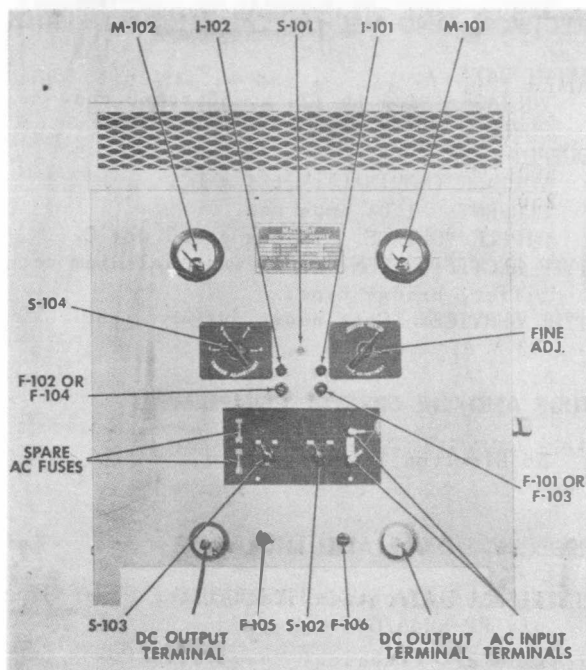
No field changes in effect at time of preparation (21 March 1957).

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-804/U	7 X 8-5/8 X 14-1/2	40

April 1958

POWER SUPPLY**PP-811/U***Power Supply PP-811/U***FUNCTIONAL DESCRIPTION**

The PP-811/U is a magnesium-copper sulphide rectifier supply providing well regulated and filtered DC voltage output. It employs two independent output circuits which may be series or parallel connected to supply either 13 volts at 40 amperes, or 26 volts at 20 amperes. Provision is made for obtaining continuous DC output adjustment, as well as constant output during variation of the AC input voltage to the supply. Compensation is provided to allow for voltage drop due to rectifier aging.

A DC voltmeter and ammeter are provided to indicate output, and isolating-type transformers are used to isolate the DC output circuit from the AC line.

No field changes in effect at time of preparation (31 December 1957).

RELATION TO OTHER EQUIPMENT

The PP-811/U is used as a temporary substitute for Power Supply PP-388/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OUTPUT: 13 or 26 v DC, 40 or 20 amps, 520 W.

RIPPLE CONTENT: Less than 1% at full load.

REGULATION: 12 to 14 v or 24 to 28 v from no load to full load.

METER RANGES

DC VOLTMETER: 0 to 35 v.

DC AMMETER: 0 to 50 amp.

TEMP LIMITS: 0 to 40 deg C.

POWER SOURCE REQUIRED: 115 or 230 v $\pm 10\%$, 60 cps, single ph.

MTG DATA: Deck mounted w/3 in. air space at top on all sides for adequate ventilation.

MANUFACTURER'S OR CONTRACTOR'S DATA

P. R. Mallory and Co, Inc., Rectifier Div,
Indianapolis, Ind.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals.

REFERENCE DATA AND LITERATURE

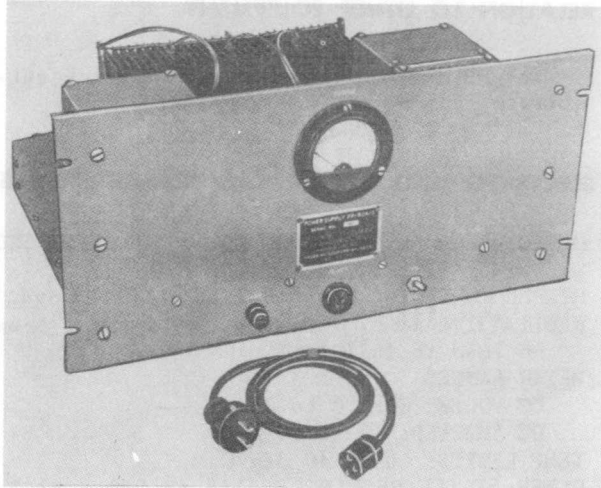
NAVSHIPS 91615: Technical Manual for Power Supply PP-811/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-811/U	13 X 23-1/4 X 26	205

January 1958

POWER SUPPLYRadio-Auxiliary
PP-824A/G*Power Supply PP-824A/G***ELECTRICAL AND MECHANICAL CHARACTERISTICS****INPUT DATA**

VOLTAGE: 105 to 125 v, 50 to 60 cps.

POWER: 312 W max.

OUTPUT DATA

VOLTAGE (NOMINAL): 131 v DC.

CURRENT: 1.04 amps max.

RIPPLE VOLTAGE: 1% max at 30 deg C.

TYPE RECTIFICATION: Full wave selenium rec-
tifier, bridge type.

TYPE SERVICE: Continuous duty.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURETM11-5130: Technical Manual for Power Sup-
ply PP-824A/G.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

FUNCTIONAL DESCRIPTION

The PP-824A/G is a general purpose rectifying unit designed to provide a source of regulated direct current at relatively high current values with a low percentage of ripple voltage. It is designed for permanent indoor installation in a standard, 19-inch equipment rack.

No field changes in effect at time of preparation (9 August 1957).

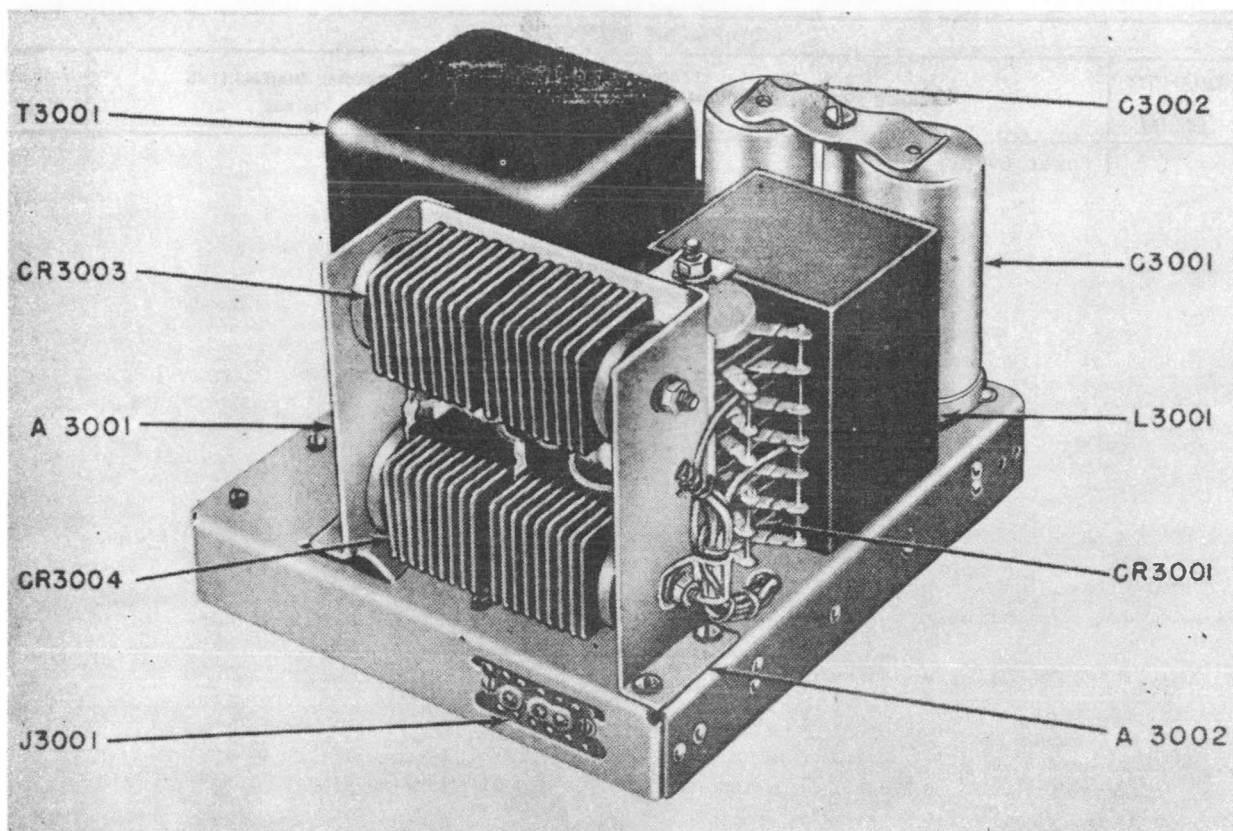
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-824A/G	5.03	11-1/2 x 21 x 36	152

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-824A/G	8-23/32 x 14-9/16 x 19	
1	Input Cable Assembly	36 lg	
2	Technical Manual TM11-5130	1/8 x 5-7/8 x 9-1/8	

POWER SUPPLY



Power Supply PP-846/U

FUNCTIONAL DESCRIPTION

The PP-846/U is a transformer type AC power supply which transforms, rectifies, regulates, and filters power from a 115 v or 230 v AC source. The power supply develops the voltage required to operate one of the following components: Radio Receivers R-257/UR, R-394/U or Radio Set Control C-845/U.

No field changes in effect at time of preparation (20 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER INPUT: 115 v or 230 v, 50 to 65 cps, 46 va.

FILAMENT AND HEATER CIRCUIT POWER DRAINS

6.3 V FILAMENT: 0.45 amp.
6.3 V CRYSTAL HEATER: 0.9 amp.
1.4 V FILAMENT: 1.25 amp.

PLATE, SCREEN, AND BIAS CIRCUIT POWER DRAINS

160 V DC: 15 ma.
155 V DC: 5 ma.
145 V DC: 50 ma.
-40 V DC: 0.25 ma.

ADAPTABILITY TO SERVICE CONDITIONS

ALTITUDE: 10,000 ft.

WEATHER AND CLIMATE: Fungiproofed, moisture proofed.

OPERATING TEMPERATURE: -40 deg C to +56 deg C.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

REFERENCE DATA AND LITERATURE

TM11-5078: Technical Manual for Power Supply PP-846/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

PP-846/U

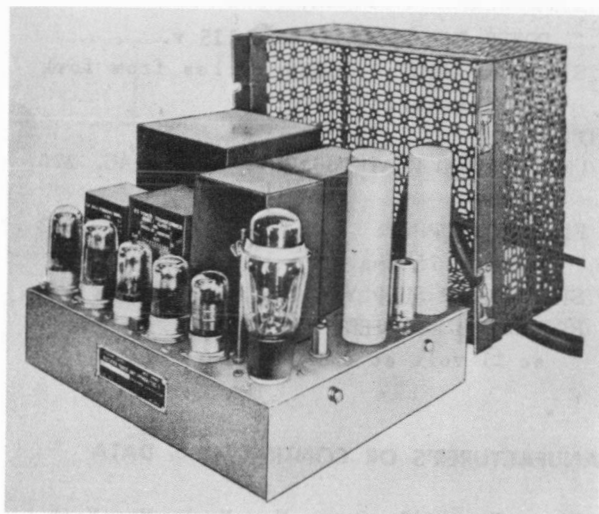
POWER SUPPLY

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-846/U	5 X 6-1/4 X 7	10

RECTIFIER POWER UNIT

PP-86/TXC-1



Rectifier Power Unit PP-86/TXC-1

FUNCTIONAL DESCRIPTION

Rectifier Power Unit PP-86/TXC-1 is a electronic-type power supply with full-wave rectification designed to supply the necessary operating voltages to Facsimile Transceivers TT-1/TXC-1 through TT-1F/TXC-1 (part of Facsimile Sets AN/TXC-1 through AN/TXC-1D) when these equipments are used over either wire or radio communication circuits. The power supply operates from an ac source.

The power supply consists of a chassis assembly protected by a ventilated top cover and by a bottom cover plate. Input and output power cords are attached to the unit.

No field changes in effect at time of preparation (26 June 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT REQUIREMENTS

POWER SOURCE

INPUT VOLTAGE: 100 to 130 v AC.

FREQUENCY: 50 to 65 cycles.

POWER INPUT: 250 W at 115 v.

SIGNAL SOURCE: 1,800 cycles from fork oscillator.

OUTPUT

UNREGULATED PLATE SUPPLY: 450 v AC, 270 ma.

FILAMENT SUPPLY: 6.3 v AC, 6.25 amp; 6.3 v AC, 1.75 amp.

START MOTOR SUPPLY: 115 v AC, 2 amp.

REGULATED EXCITER LAMP SUPPLY: 6 volts AC ± 1 volt at 1,800 cycles 2.74 amp.

TUBE AND/OR CRYSTAL COMPLEMENT

- | | |
|----------|---------|
| (1) 7S7 | (1) 7N7 |
| (2) 7C5 | (1) 7L7 |
| (1) 1B47 | (1) 5Z3 |

Total Tubes: (7)

No Crystals used.

REFERENCE DATA AND LITERATURE

TM11-2258: Technical Manual for Facsimile Sets AN/TXC-1, 1A, 1B, 1C, and 1D.

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE SPEC. 71-3107(SIG)
STOCK NO.
R.D.B. IDENT. NO.

SHIPPING DATA

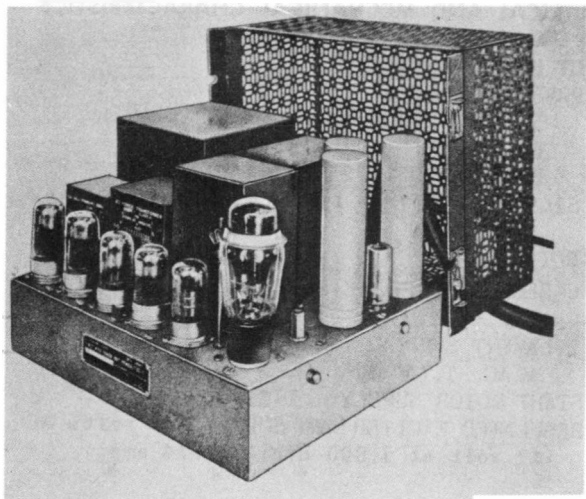
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Rectifier Power Unit PP-86/TXC-1	2.3	15 X 15-1/4 X 17-1/2	89

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier Power Unit PP-86/TXC-1	9 X 10 X 12	48

February 1960

Radio-Auxiliary

RECTIFIER POWER UNIT**PP-86A/TXC-1**

Rectifier Power Unit PP-86A/TXC-1

POWER INPUT: 250 W at 115 v.
 SIGNAL SOURCE: 1,800 cycles from fork
 oscillator. ■

OUTPUT

UNREGULATED PLATE SUPPLY: 450 v AC, 270
 ma.
 FILAMENT SUPPLY: 6.3 v AC, 6.25 amp; 6.3
 v AC, 1.75 amp.
 START MOTOR SUPPLY: 115 v AC, 2 amp.
 REGULATED EXCITER LAMP SUPPLY: 6 volts
 ac ± 1 volt at 1,800 cycles 2.74 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

Times Facsimile Corp, New York, New York.
 Order 4221-Phil-47-77.
 Contract NObsr-42035.

FUNCTIONAL DESCRIPTION

Rectifier Power Unit PP-86A/TXC-1 is a electronic-type power supply with full-wave rectification designed to supply the necessary operating voltages to Facsimile Transceivers TT-1/TXC-1 through TT-1F/TXC-1 (part of Facsimile Sets AN/TXC-1 through AN/TXC-1D) when these equipments are used over either wire or radio communication circuits. The power supply operates from an ac source.

The power supply consists of a chassis assembly protected by a ventilated top cover and by a bottom cover plate. Input and output power cords are attached to the unit.

No field changes in effect at time of preparation (26 June 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS**INPUT REQUIREMENTS****POWER SOURCE**

INPUT VOLTAGE: 100 to 130 v AC.
 FREQUENCY: 50 to 65 cycles.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 7S7	(1) 7N7
(2) 7C5	(1) 7L7
(1) 5651	(1) 5Z3

Total Tubes: (7)

No Crystals used.

REFERENCE DATA AND LITERATURE

TM11-2258: Technical Manual for Facsimile Sets AN/TXC-1, 1A, 1B, 1C, and 1D.

TYPE CLASSIFICATION	
DESIGN COGNIZANCE	TASSA
PROCUREMENT COGNIZANCE	SPEC 71-3107(SIG)
STOCK NO.	
R.D.B. IDENT. NO.	

February 1960

Radio-Auxiliary
PP-86A/TXC-1

RECTIFIER POWER UNIT

SHIPPING DATA

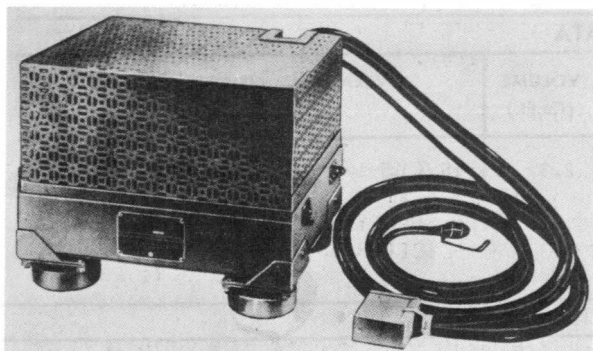
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (C.u.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Rectifier Power Unit PP-86A/TXC-1	2.3	15 X 15-1/4 X 17-1/2	89

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier Power Unit PP-86A/TXC-1	9 X 10 X 12	48

RECTIFIER POWER UNIT

PP-86C/TXC-1



Rectifier Power Unit PP-86C/TXC-1

FUNCTIONAL DESCRIPTION

Rectifier Power Unit PP-86C/TXC-1 is an electronic-type power supply with full-wave rectification designed to supply the necessary operating voltages to Facsimile Transceivers TT-1/TXC-1 through TT-1F/TXC-1 (part of Facsimile Sets AN/TXC-1 through AN/TXC-1D) when these equipments are used over either wire or radio communication circuits. The power supply operates from an ac source.

The power supply consists of a chassis assembly protected by a ventilated top cover and by a bottom cover plate. Input and output power cords are attached to the unit.

No field changes in effect at time of preparation (26 June 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT REQUIREMENTS

POWER SOURCE

INPUT VOLTAGE: 100 to 130 v AC.

FREQUENCY: 50 to 65 cycles.

POWER INPUT: 250 W at 115 v.
SIGNAL SOURCE: 1,800 cycles from fork oscillator.

OUTPUT

UNREGULATED PLATE SUPPLY: 450 v AC, 270 ma.

FILAMENT SUPPLY: 6.3 v AC, 6.25 amp; 6.3 v AC, 1.75 amp.

START MOTOR SUPPLY: 115 v AC, 2 amp.

REGULATED EXCITER LAMP SUPPLY: 6 volts ac \pm 1 volt at 1,800 cycles 2.74 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

Times Facsimile Corp, New York, New York.
Contract NObsr-52042, dated 6 October 1950.

TUBE AND/OR CRYSTAL COMPLEMENT

- | | |
|----------|---------|
| (1) 7S7 | (1) 7N7 |
| (2) 7C5 | (1) 7L7 |
| (1) 5651 | (1) 5Z3 |

Total Tubes: (7)

No Crystals used.

REFERENCE DATA AND LITERATURE

TM11-2258: Technical Manual for Facsimile Sets AN/TXC-1, 1A, 1B, 1C and 1D.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE SPEC. SHIPS-F-263
STOCK NO.

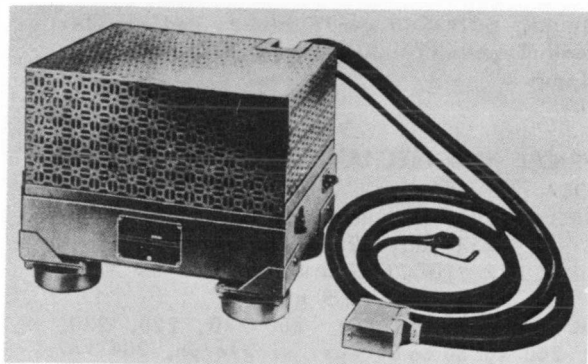
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Rectifier Power Unit PP-86C/TXC-1	2.3	15 X 15-1/4 X 17-1/2	89

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier Power Unit PP-86C/TXC-1	9 X 10 X 12	48

RECTIFIER POWER UNIT



Rectifier Power Unit PP-86D/TXC-1

FUNCTIONAL DESCRIPTION

Rectifier Power Unit PP-86D/TXC-1 is an electronic-type power supply with full-wave rectification designed to supply the necessary operating voltages to Facsimile Transceivers TT-1/TXC-1 through TT-1F/TXC-1 (part of Facsimile Set AN/TXC-1 through AN/TXC-1D) when these equipments are used over either wire or radio communication circuits. The power supply operates from an ac source.

The power supply consists of a chassis assembly protected by a ventilated top cover and by a bottom cover plate. Input and output power cords are attached to the unit.

No field changes in effect at time of preparation (26 June 1959).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT REQUIREMENTS

POWER SOURCE

INPUT VOLTAGE: 100 to 130 v AC.
FREQUENCY: 50 to 65 cycles.

POWER INPUT: 250 W at 115 v.
SIGNAL SOURCE: 1,800 cycles from fork oscillator.
OUTPUT
UNREGULATED PLATE SUPPLY: 450 v AC, 270 ma.
FILAMENT SUPPLY: 6.3 v AC, 6.25 amp; 6.3 v AC, 1.75 amp.
START MOTOR SUPPLY: 115 v AC, 2 amp.
REGULATED EXCITER LAMP SUPPLY: 6 volts ac \pm 1 volt at 1,800 cycles 2.74 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

Times Facsimile Corp, New York, New York.
Contract NObsr-52042, dated 6 October 1950.

TUBE AND/OR CRYSTAL COMPLEMENT

- | | |
|----------|---------|
| (1) 7S7 | (1) 7N7 |
| (2) 7C5 | (1) 7L7 |
| (1) 5651 | (1) 5Z3 |

Total Tubes: (7)

No Crystals used.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91068A: Technical Manual for Facsimile Transceiver TT-41B/TXC-1B and Rectifier Power Unit PP-86D/TXC-1.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE SPEC. SHIPS-F-263
STOCK NO.

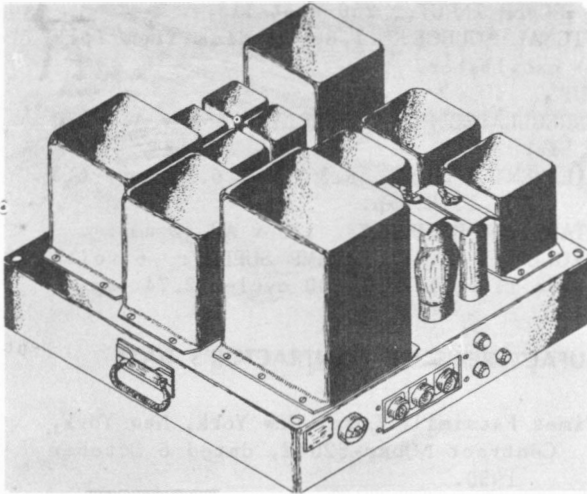
SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Rectifier Power Unit PP-86D/TXC-1	2.3	15 X 15-1/4 X 17-1/2	89

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier Power Unit PP-86D/TXC-1	9 X 10 X 12	48

Apr 11 1968

RECTIFIER POWER UNIT**PP-882/U***Rectifier Power Unit PP-882/U*

single ph, 50 to 60 cycle input, and similar to Navy Type (NT)-20218 and 20218A except for input.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OUTPUTS: 400 v DC, 200 ma.
225 v DC, 120 ma.
12 v DC, 1.225 amp.
12.6 v AC, 3.9 amp.

POWER SOURCE REQUIRED: 200/210, 220, 230,
or 240 v, 50 to 60 cps, single ph, 204 va.

MANUFACTURER'S OR CONTRACTOR'S DATA

Northeastern Engineering, Inc, Manchester,
N. H.

Contract NObsr-43388, dated 10 June
1949.

FUNCTIONAL DESCRIPTION

The PP-882/U is an unregulated power supply for use with Radio Transmitting and Receiving Equipment TCS. It is designed to provide two high-voltage DC outputs, one unfiltered low voltage DC output and one low-voltage AC output. It employs two full-wave vacuum-tube rectifiers and one full-wave selenium type. AC output is taken from one of the filament transformers.

No field changes in effect at time of preparation (26 December 1957).

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 5R4WGB (2) 6X5WGT
Total Tubes: (4)
No Crystals.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91699: Technical Manual for Type
PP-882/U Rectifier Power Unit.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

RELATION TO OTHER EQUIPMENT

The PP-882/U is similar to NT-20309 except that it contains provision for only 230 v AC,

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Rectifier Power Unit	3.55	14 X 19-1/2 X 22-1/2	124
1	Set of Equipment Spares	2.017		

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier Power Unit PP-882/U	10-1/8 X 16-11/16 X 17-1/4	94
1	Set of Equipment Spares		

October 1957

RECTIFIER POWER UNIT

PP-903/U



Rectifier Power Unit PP-903/U

FUNCTIONAL DESCRIPTION

The PP-903/U is for general use and supplies both high and low DC voltage from a 117 v, 50 to 60 cps power source. Its DC output is designed to supply both high and low DC voltage required by airborne radio transmitter receiver when operated on the ground where 117 v power is available. This eliminates the need for storage batteries and dynamotors.

No field changes in effect at time of preparation (20 March 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER INPUT: 117 v, 50 to 60 cps.

POWER OUTPUT: 300 to 360 v DC at 0 to 300 mw; 24 to 28 v DC at 3 to 8 amp.

MANUFACTURER'S OR CONTRACTOR'S DATA

Mare Island Naval Shipyard, Vallejo, Calif.
Allotment No: 55001/51.

Approximate Cost: \$920.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 5R4GY

Total Tubes: (2)

REFERENCE DATA AND LITERATURE

NAVSHIPS 91761: Technical Manual for Rectifier Power Unit PP-903/U.

TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Rectifier Power Unit PP-903/U	12 x 19 x 27	144

October 1957

POWER SUPPLY

Radio-Auxiliary
PP-949/TGC



Power Supply PP-949/TGC

CLASSIFIED

Radio-Auxiliary

PP-949/TGC

POWER SUPPLY

FUNCTIONAL DESCRIPTION

The PP-949/TGC supplies 115 v DC for the operation of teletypewriter equipment that is used with switchboard BD-100 and 115 v AC for the operation of one teletypewriter printer motor (Printer TG-7-A or Teletypewriter TG-7-B or TG-37-B). The power supply is part of Telegraph Central Office Set TC-3, which includes these equipments.

No field changes in effect at time of preparation (22 March 1957).

OUTPUT AT 115 v.

DC: 4.55 amp.
AC: 1.3 amp.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6X4W (1) 5651 (1) 5687 (1) 5751 (1) 5814

Total Tubes: (5)

ELECTRICAL AND MECHANICAL CHARACTERISTICS

INPUT

VOLTAGE: 80 to 100; 100 to 125; 200 to 250 v.

FREQUENCY: 50 to 65 cps.

PHASE: Single.

POWER: 100 w full load.

POWER FACTOR: 65%.

EFFICIENCY: 50%.

REFERENCE DATA AND LITERATURE

TM11-991: Technical Manual for POWER SUPPLY PP-949/TGC.

TYPE CLASSIFICATION
DESIGN COGNIZANCE Tassa
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA

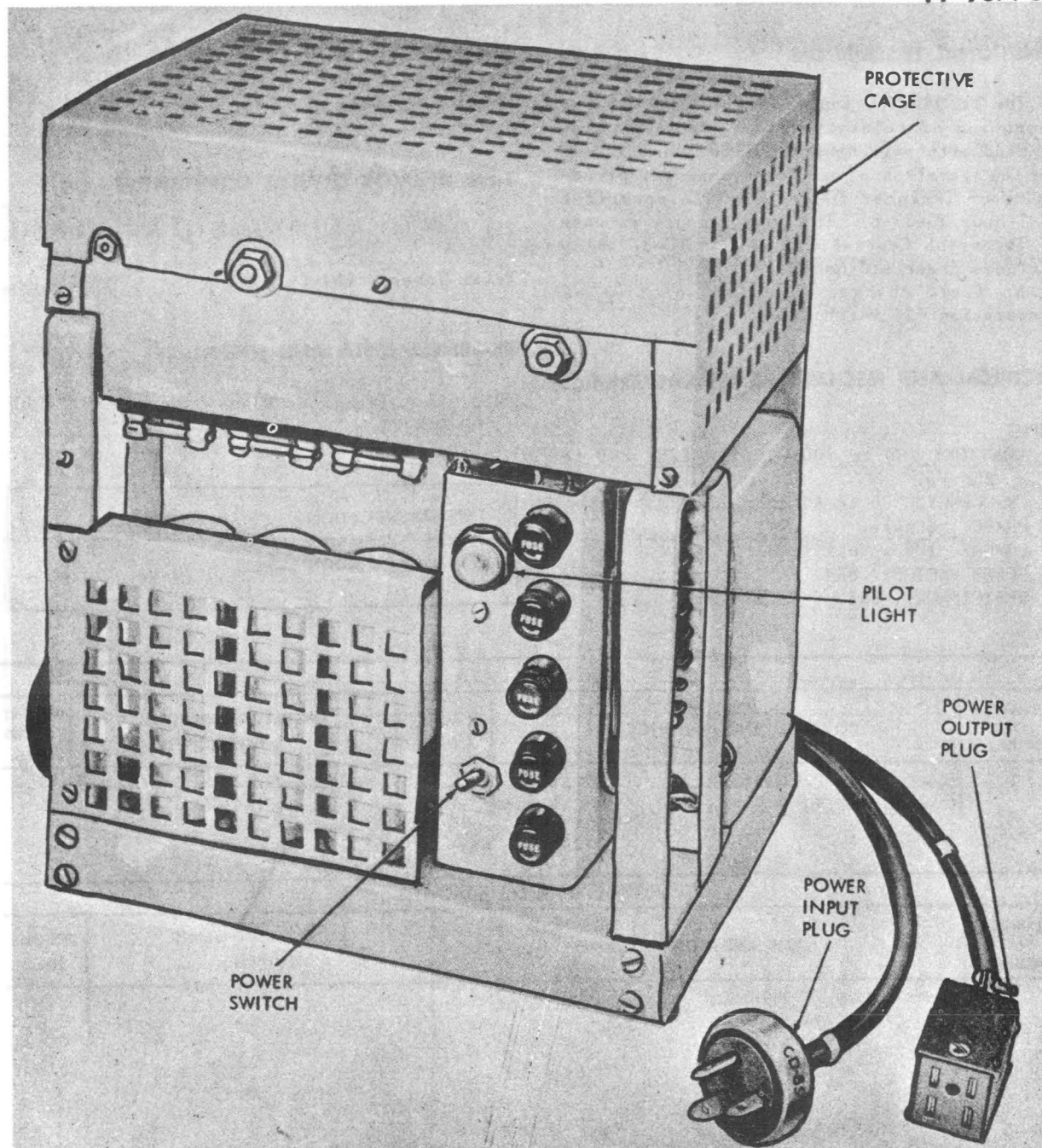
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-949/TGC Case CY-1452/TG	16.3	25-1/8 X 28-1/2 X 39-5/8	375

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-949/TGC		
1	Case CY-1452/TG		

POWER SUPPLY

PP-987/U



Power Supply PP-987/U

FUNCTIONAL DESCRIPTION

The PP-987/U is designed to supply all of the DC voltages for a receiver and transmitter group. The equipment contains dry

disk rectifiers, a transformer, and associated parts and wiring.

No field changes in effect at time of preparation (5 October 1956).

March 1957

Radio Auxiliary

PP-987/U

POWER SUPPLY

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TUBE AND/OR CRYSTAL COMPLEMENT

INPUT: 105 to 125 v, 50 to 60 cps, single

No Electron Tubes.

ph.

OUTPUT: 120 v, lamp filtered.

120 v, lamp unfiltered.

120 v, 0.090 amp filtered.

REFERENCE DATA AND LITERATURE

NAVSHIPS 92378: Technical Manual for Teletypewriter Sets AN/FGC-38,38X.

MANUFACTURER'S OR CONTRACTOR'S DATA

Teletype Corp, Chicago, Illinois.

Contract NObsr 52445, dated 3 April 1953.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

PROCUREMENT COGNIZANCE

STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Power Supply PP-987/U	1.4	19-1/4 X 15 X 15-1/4	65

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Power Supply PP-987/U	7-1/2 X 10 X 12	49