



MISC ENGINEERING, LLC

580 T. M. West Parkway -- West, Texas 76691 -- Phone: 254-826-5100 -- Fax: 254-826-5633



**TRANSEIVER AC/DC UNINTERRUPTABLE
POWER SUPPLY
FOR THE AN/PRC-117G MANPACK RADIO**

PART NUMBER: 100121A-01

The 100121A-01 Power Supply incorporates a rechargeable Lithium-Ion battery (BB-2557/U) to provide battery operation in addition to worldwide power applications for the newest transceivers presently being fielded by the U.S. Military.

Each unit includes one Transceiver Power Supply unit, one Lithium-Ion battery pack, one AC input cable, one DC input cable and one Operation/Maintenance Manual.

Transceiver operation from almost any worldwide AC power source (including aircraft or generator power).

External 26 VDC output for amplified speaker or other 26 VDC applications.

Internal BB-2557/U battery allows for the operation of the transceiver independently of the external power source. An internal charger allows the 100121A-01 Power Supply to recharge the battery while the transceiver is operating from an external AC or DC power source. To assure a positive recharge of the battery, each string of battery cells is recharged independently.



100121A-01 Transceiver Power Supply



AN/PRC-117G with 100121A-01 Transceiver Power Supply & 100133A-01 Shock mount Tray Attached (transceiver not included) (shock mount tray sold separately)

Specifications

Part Number	100121A-01
AC Input	95-265 VAC / 47-440Hz
DC Input	9-36 VDC
DC Output	26.5 VDC
Weight	3.0 lbs. (without battery)
Size	3.25" x 7.125" x 5.25" Tall
Operating Temperature	-30°C to 65°C
Storage Temperature	-50°C to 65°C
Humidity	95% relative
Battery Type	BB-2557 Lithium-Ion Rechargeable



100121A-01 Transceiver Power Supply and BB-2557/U Li-Ion Rechargeable Battery



Size Comparison of AN/PRC 117G Battery Box and 100121A-01 Transceiver Power Supply



GSA Contract: GS03F0138X
Cage Code: 4W0X1
TIN: 20-8297783
Duns: 80-717-3898

MISC Engineering, LLC
is SAM registered for Federal Direct
Deposit
WAWF Registered





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TRANSEIVER AC/DC UNINTERRUPTABLE POWER SUPPLY **POWER FOR**
THE AN/PRC-117G MANPACK RADIO

PART NUMBER: 100121A-01

FEATURES:

- Operates from worldwide input power : 95 to 265 VAC / 47 to 440 Hz or 9 to 36 VDC
- Unit supplies 26.5 VDC @ 5.5 Amps with a 7Amp peak.
- Auxiliary 26.5 VDC @ 1.0 Amps output connector to power external devices.
- The power supply switches instantaneously to the rechargeable internal battery during either AC or DC power failure.
- The unit uses the rechargeable BB-2557 (NSN 6140-01-490-5387) battery as back-up power. It is user replaceable and does not require the unit be returned to the manufacturer for replacement.
- The 100121A-01 is fully operational with or without the BB-2557 battery.
- Weighs only 3.0 without the battery installed.
- There is no user setup or intervention required.
- The 100121A-01 charges the battery when either external AC or DC power is supplied, whether the AN/PRC-117(G) transceiver is operating or powered down.
- The 100121A-01 is modular in design using COTS parts allowing fast replacement and upgrades.
- Unit is EMI/RFI protected and designed to meet MIL-STD 1275,461,810 and TEMPEST.
- Protected against EMI/RFI noise, reverse polarity, voltage surge, over voltage, over temperature and short circuit.
- Unit is water submersible, sand/dust-proof when attached to the AN/PRC-117(G) transceiver.
- AC, DC and Battery LED indicators are Night Vision Goggles compatible.
- The 100121A-01 is 3.25" X 7.125" X 5.25" (overall).



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