The RF-5051-PS001 and RF-5054-PS001 Series of high-performance AC power supplies allows operation of Fallon® II/Falcon® III and RF-5000 Series systems from a VAC input range of 85 to 265 volts in base station, shipboard, or transportable applications.

The RF-5051-PS001 Power Supply provides 28 volts DC at 30 Amps to power up to 840 watts. The power supply uses the same mounting as the RF-5022R/T(E) Receiver/Exciter and is compatible with RF-5000 and RF-5800H family shock mounts and transport packages. RF-5051-PS001 environment specifications match those of the FALCON® family components, providing a system which is reliable even under the harshest of conditions.

The RF-5054-PS001 Power Supply consists of two RF-5051-PS001 units connected in parallel. The RF-5054-PS001 provides power for 400 watt Falcon Series systems. The RF-5051-PS001 has backward-compatible functionality to the RF-5051PS-125, and both RF-5051-PS001 and RF-5051PS-125 may be combined to create an RF-5054-PS001.
Specifications for the RF-5051-PS001 and RF-5054-PS001

**General/Electrical**
- **Input Voltage**
  85-265 VAC, 47-400 Hz
- **Input Power Factor Correction**
  >95% (85-265 VAC)
- **Input Protection**
  Circuit Breaker
- **Output Voltage**
  +28 VDC ± 0.5
- **Regulation, Line Load**
  0.2% from low line to high line
- **Ripple and Noise**
  200 MV @ 30A
- **Voltage Stability**
  200 MV drift maximum
- **Efficiency**
  >80%
- **Over-Voltage Protection**
  Set to 28 ± 0.5 VAC
- **Output Current**
  RF-5051-PS001: 30 Amps maximum
  RF-5054-PS001: 60 Amps maximum
- **Inrush Current**
  RF-5051-PS001: 4 Amps for 10 ms
  RF-5054-PS001: 8 Amps for 10 ms
- **Hold Time**
  RF-5051-PS001: 500 ms with 0.5 Amp load
  RF-5054-PS001: 1 sec. with 0.5 Amp load
- **Overload Protection**
  RF-5051-PS001: Out. current limit 33 Amps
  RF-5054-PS001: Out. current limit 66 Amps
- **Output Protection**
  Output is automatically protected from short and misfiring

**Mechanical/Environmental**
- **Cooling**
  Conduction to outside heat sink, forced convection
- **Temperature**
  Operating: −40°C to +70°C;
  Storage: −60°C to +90°C
- **Altitude**
  MIL-STD-810F
- **Humidity**
  MIL-STD-810F, 95%
- **Shock/Vibration**
  MIL-STD-810F
- **EMI**
  MIL-STD-461E
- **Size**
  RF-5051-PS001: 5.5H x 7.5W x 12.8D in
  (14H x 19.1W x 32.5D cm)
  RF-5054-PS001: 5.5H x 15.0W x 12.8D in
  (14H x 38.1W x 32.5D cm)
- **Weight**
  RF-5051-PS001: 17.3 lb (7.8 kg)
  RF-5054-PS001: 34.6 lb (15.7 kg)

**Features/Benefits**
- High reliability
- Configurations for 50, 125 and 400 watt systems
- Conservative ratings
- Rugged package compatible with the FALCON® Series RF-5000 and FALCON® II RF-5800H Tactical Transceiver Systems
- Ground Fault Interrupters
  CISPR221EN55022 Level B
- Allows Generator Operation
- Supports Line/Line Operation
- Self Fault Recovery
- Fault Indicator

Specifications are subject to change without notice.