

**RF-5051PS-125
RF-5054PS-400****AC POWER
SUPPLIES**

*fully compatible and
functional members of
the FALCON® Series*

RF-5000 and FALCON® II

RF-5800H Tactical

Communications families

The RF-5051PS-125 and RF-5054PS-400 Series of high-performance AC power supplies allows operation of RF-5800H and RF-5000 Series systems from 115 to 230 volt sources in base station, shipboard, or transportable applications.

The RF-5051PS-125 Power Supply provides 28 volts DC at 30 Amps to power up to two 125 watt RF-5000 systems. The power supply uses the same mounting as the RF-5022RT(E) Receiver/Exciter and is compatible with RF-5000 and RF-5800H family shock mounts and transport packages. RF-5051PS-125 environment specifications match those of the FALCON family components, providing a system which is reliable even under the harshest of conditions.

The RF-5054PS-400 Power Supply consists of two RF-5051PS-125 units connected in parallel. The RF-5054PS-400 provides power for 400 watt Series systems.



General / Electrical

- **Input Voltage**
115/230 VAC \pm 20%, 47-400 Hz, autoswitching
- **Output Voltage**
+28 VDC
- **Regulation, Line Load**
150 MV over line range; 15 MV/Amp
- **Ripple and Noise**
50 MV
- **Voltage Stability**
200 MV drift maximum
- **Efficiency**
80%
- **Over-Voltage Protection**
Shorted at 33V output
- **Output Current**
RF-5051PS-125: 30 Amps. maximum
RF-5054PS-400: 60 Amps. maximum
- **Inrush Current**
RF-5051PS-125: 5 Amps.
RF-5054PS-400: 10 Amps.
- **Hold Time**
RF-5051PS-125: 2.4 sec. with 5 Amp. load
RF-5054PS-400: 2.4 sec. with 10 Amp. load
- **Overload Protection**
RF-5051PS-125: Out. current limit: 30 Amps.
RF-5054PS-400: Out. current limit: 60 Amps.

Mechanical / Environmental

- **Cooling**
Conduction to outside heatsink, forced convection
- **Temperature**
Operating: -40°C to $+70^{\circ}\text{C}$;
Storage: -60°C to $+90^{\circ}\text{C}$
- **Altitude**
MIL-STD-810D
- **Humidity**
MIL-STD-810D, 95%
- **Shock/Vibration**
MIL-STD-810D
- **EMI**
MIL-STD-461A
- **Size**
RF-5051PS-125: 5.37H x 7.5W x 13.5D in
(13.6H x 19.1W x 34.3D cm)
RF-5054PS-400: 5.37H x 15.0W x 13.5D in
(13.6H x 38.1W x 34.3D cm)
- **Weight**
RF-5051PS-125: 17.25 lb (7.8 kg)
RF-5054PS-400: 34.5 lb (15.6 kg)

Features/Benefits

- High reliability
- Configurations for 125 watt and 400 watt systems
- Conservative ratings
- Rugged package compatible with the FALCON Series RF-5000 and FALCON II RF-5800H Tactical Transceiver Systems

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RF Communications Division | 1680 University Avenue | Rochester, NY USA 14610
www.harris.com 1-585-244-5830