

# RF-5051-PS001/RF-5054-PS001

## AC Power Supply Series

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 $\pm$ 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 $\pm$ 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

PHYSICAL	
Dimensions	RF-5051-PS001: 5.5 H x 7.5 W x 12.8 D in (14 H x 19.1 W x 32.5 D cm) RF-5054-PS001: 5.5 H x 15.0 W x 12.8 D in (14 H x 38.1 W x 32.5 D cm)
Weight	RF-5051-PS001: 17.3 lbs (7.8 kg) RF-5054-PS001: 34.6 lbs (15.7 kg)

ENVIRONMENTAL	
Cooling	Conduction to outside heat sink, forced convection
Temperature	Operating: -40°F to +158°F (-40°C to +70°C) Storage: -76°F to +194°F (-60°C to +90°C)
Altitude	MIL-STD-810F
Humidity	MIL-STD-810F, 95%
Shock/Vibration	MIL-STD-810F
EMI	MIL-STD-461E



The RF-5051-PS001 and RF-5054-PS001 high-performance AC power supplies support operation of Falcon II®, Falcon III® and RF-5000 systems from a VAC input range of 85 to 265 volts in base station, shipboard or transportable applications. The RF-5051-PS001 provides 28 volts DC at 30 amps for power up to 840 watts. This ruggedized solution 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. The RF-5054-PS001 consists of two RF-5051-PS001 units connected in parallel to power for 400-watt Falcon® tactical systems.