

**RF-5800V-PA****FALCON II® VHF****50-WATT****POWER AMPLIFIER**

*High performance and  
reliability for the most  
demanding applications*

The RF-5800V-PA is a high-performance VHF power amplifier for use in vehicle or base-station radio systems. The power amplifier complements a FALCON II® VHF manpack transceiver by supplying additional RF power for increased range and link reliability.

The RF-5800V-PA covers the entire 30 to 108 MHz frequency band, and can supply a full 50 watts of forward power under demanding VSWR conditions. The unit contains frequency agile RF filters to provide excellent collocation performance in both fixed frequency and fast frequency-hopping modes.

The RF-5800V-PA provides "jerk and run" operation: the manpack transceiver can be quickly removed and used as a stand-alone radio. An audio speaker interface and an Ethernet interface for connection to Local Area Networks (when used with an RF-5800V-MP) are also included.

RF-5800V 50-watt systems support all modes and features of the FALCON II VHF radios, including fast frequency hopping and packet data mode. The radio systems are designed for easy installation in tactical vehicles or operation centers to provide secure voice services and complement information systems such as e-mail, situational awareness, image/video transmission, and file transfer.



Radio must be purchased separately



## *Specifications for the RF-5800V-PA*

### *General*

<b>Frequency Range</b>	30-108 MHz
<b>Input Power</b>	20-32 VDC MIL-STD-1275 compliant
<b>Dimensions</b>	22 H x 25 W x 36 D cm
<b>Weight</b>	8.5 kg (without shock tray) 11.7 kg (with shock tray)
<b>RF Output Impedance</b>	50 ohms, unbalanced
<b>Collocation</b>	9% frequency and 1.5 M antenna separation
<b>Finish/Color</b>	CARC/Green

### *Transmit*

<b>Output Power</b>	50 W: 30-108 MHz 10 W: to 60 W (user selectable)
<b>Output Power (bypass)</b>	1 W, 4 W, 10 W
<b>Harmonic Suppression</b>	> 50 dBc typical
<b>Spurious Suppression</b>	> 80 dBc typical

### *Receive*

<b>FM Sensitivity</b>	-115 dBm @ 12dB SINAD -110 dBm @ 12dB SINAD with collocation filters enabled
<b>IF Rejection</b>	> 80 dB

### *Environmental*

<b>Operating Temperature</b>	-40° to 70°C
<b>Humidity</b>	90% per MIL-STD-810
<b>Shock/Vibration</b>	Ground/Mobile per MIL-STD-810
<b>Sand/Dust</b>	MIL-STD-810

### *Compatibility*

<b>VHF Manpacks</b>	RF-5800V-MP205 RF-5800V-MP206 RF-5800V-MP207 RF-5800V-MP208
<b>External Speaker</b>	Power and audio connectors available

### *Accessories*

<b>DC Power Cable</b>	Various
<b>Handheld Remote Cable (up to 7.5M)</b>	KDU Remote Kit
<b>Fan Kit</b>	12023-1100-01
<b>Shock Isolator Tray</b>	12023-1200-01

