

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

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

Transmit

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

Receive

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

Environmental

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

Compatibility

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

Accessories

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

