

RF-5800M-V520

FALCON® II MULTIBAND POWER AMPLIFIER

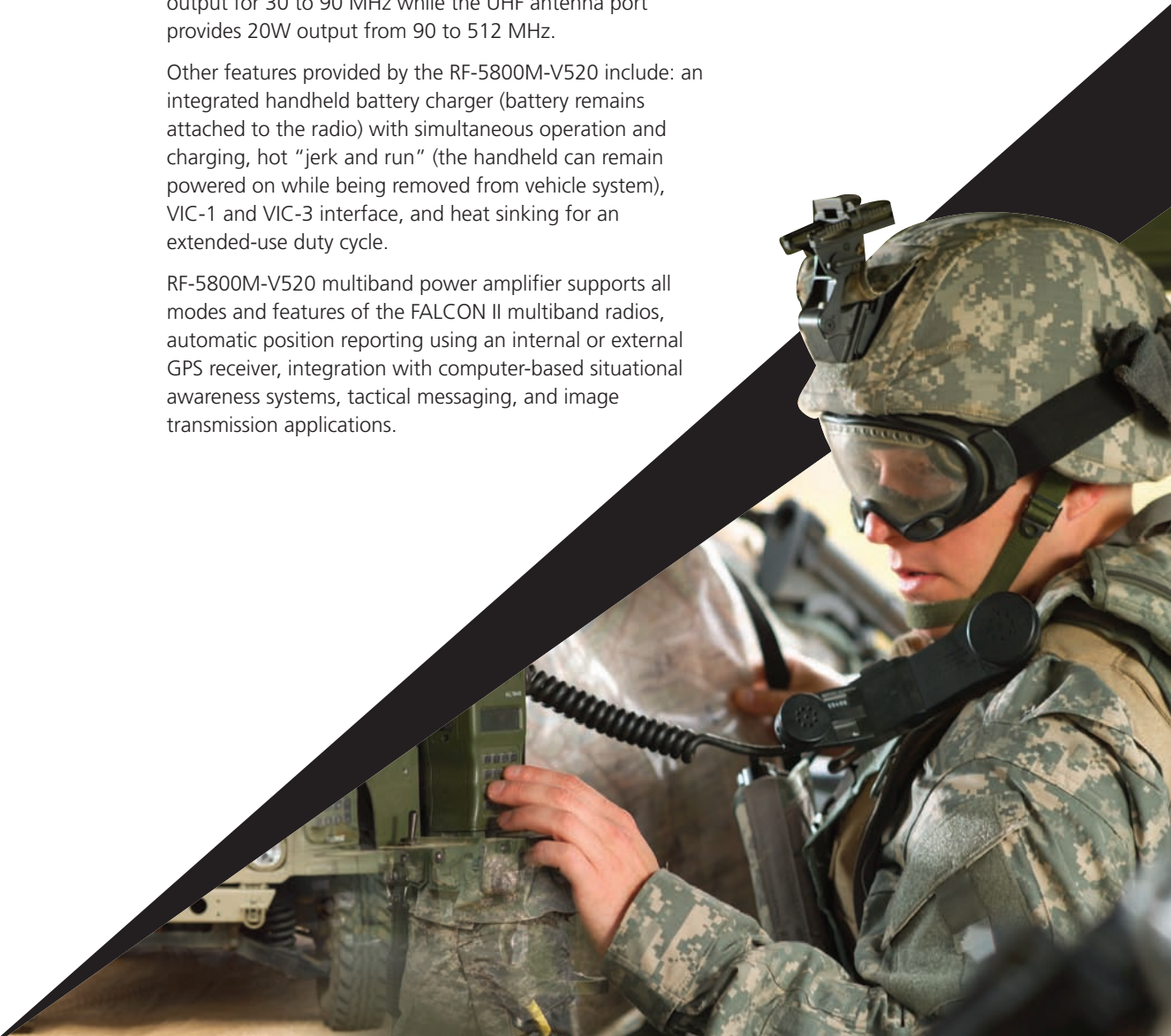
mobile
multimission
multiband
one radio

The RF-5800M-V520 is a high-performance, multiband vehicular or base station system for use with the RF-5800M-HH. For long-range applications and increased communications reliability, the RF-5800M-V520 provides 50W in the VHF band and 20W in the UHF band.

With automatic switching between antenna ports, the RF-5800M-V520 provides true multi-mission capability. The operator needs only to select the required net on the radio to switch between ground-to-ground, or ground-to-air, communications. The VHF antenna port provides 50W output for 30 to 90 MHz while the UHF antenna port provides 20W output from 90 to 512 MHz.

Other features provided by the RF-5800M-V520 include: an integrated handheld battery charger (battery remains attached to the radio) with simultaneous operation and charging, hot "jerk and run" (the handheld can remain powered on while being removed from vehicle system), VIC-1 and VIC-3 interface, and heat sinking for an extended-use duty cycle.

RF-5800M-V520 multiband power amplifier supports all modes and features of the FALCON II multiband radios, automatic position reporting using an internal or external GPS receiver, integration with computer-based situational awareness systems, tactical messaging, and image transmission applications.



Specifications for the RF-5800M-V520

General

Frequency Range	30 to 512 MHz
Power Input	20 to 32 VDC, MIL-STD-1275 compliant
Dimensions	10.7"H x 7.6"W X 12.4"D
MTBF	5000 hrs per MIL-STD-275
Weight	26 lbs.

Color/Finish	green / powder coat
RF Interface	50 ohms VHF/UHF
Collocation	9% frequency and 1.5M antenna separation
Includes	12050-3000-01 Shock mount interface assy.

Receive

FM Sensitivity	-116dBm @ 12dB SINAD
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IF Rejection	>65dB
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Transmit

Harmonic Suppression	>47 dBc typical
Spurious Suppression	>50 dBc typical

Output Power	50W 30 to 90 MHz 20W 90 to 512 MHz
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Environmental

Shock/Vibration	MIL-STD-810F
Sand/Dust	MIL-STD-810F

Operating Temperature	-30°C to 60°C
Humidity	MIL-STD-810F

Compatability

RF-5800M-HH001/101	MB handheld/GPS
RF-5800M-HH002/102	20M MB handheld/GPS
AN/PRC-152	With upgrade kit

AN/VIC-1(V)	Intercom
AN/VIC-3(V)	Intercom
LS-671	Speaker

Radio Features

ECCM	Quicklook 1A Havequick I/II
Data Communication	16kbps DTE and IP data rate
SMS	Short Messaging Service

COMSEC	CITADEL
GPS	internal (option)
Data Interface	RS-232 sync/async
Directed Calling	Private radio-to-radio call

Amplifier Options

DC Power Cable
Fan Kit

External Speaker

RF-5800M handheld radio sold separately.
Specifications are subject to change without notice.



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