

5100 SERIES PORTABLE SPECIFICATIONS

The following are general specifications intended for use in testing and servicing this transceiver. For current advertised specifications, refer to the specification sheet available from your sales representative. Values are typical and are subject to change without notice.

GENERAL

Frequency Range	VHF: 136-174 MHz UHF: 403-470 MHz, 450-512 MHz 800 MHz: 806-870 MHz
Operating Modes	Project 25 conv. and trunked, SMARTNET, SmartZone, Conventional analog, Multi-Net
Zones/Channels	16 zones with 16 channels per zone
Transmit/Receive Separation	Any frequency within the range
Channel Spacing	VHF: 12.5, 25, and 30 kHz UHF: 12.5 and 25 kHz 800 MHz: 12.5 and 25 kHz
Maximum Deviation	25 kHz analog - 5 kHz 12.5 kHz analog - 2.5 kHz 12.5 kHz analog NPSPAC - 4.0 kHz
Frequency Stability	1.5 PPM -22° to +140° F (-30° to +60° C)
Dimensions (w/o antenna)	6.7" H x 2.52" W x 1.9" D (17.0 cm x 6.4 cm x 4.8 cm)
Weight (w/std battery)	24 oz. (675 g)
Supply Voltage	7.5 volts DC nominal
Battery Life	13 hours typical w/std 3300 mAh NiMH battery
Current Drain (maximum)	Standby - 110 mA Receive (rated audio out) - 350 mA Low Tx Power - 1.2 A High Tx Power - 2.6 A (800 MHz), 2.4 A (VHF, UHF)

RECEIVER

Sensitivity	0.35 μ V (analog mode 12 dB SINAD), 0.35 μ V (digital mode 5% BER)
Selectivity	60 dB
Spurious and Image Rejection	65 dB
Intermodulation	70 dB
Hum and Noise	40 dB at 25 kHz, 34 dB at 12.5 kHz
Maximum Frequency Spread	Any spread within the range
Audio Power Output	500 mW
Audio Distortion	Less than 5% at 1 kHz

TRANSMITTER

RF Power Output	VHF: 5W (high), 1W (low) UHF: 4W (high), 1W (low) 800 MHz: 3W
Spurious and Harmonic Emissions	70 dB (VHF/UHF), 60 dB (800 MHz)
FM Hum and Noise	40 dB at 25 kHz bandwidth
Audio Modulation	11K0F3E, 14K0F3E, 16K0F3E, 8K10F1E, 20K0F1E
Audio Distortion	Less than 3% at 1 kHz
Maximum Frequency Spread	Any spread within the band