



PRC-120/E Portable Radio Communication System



DESCRIPTION

PRC-120/E portable radio communication system is a HF (1.6 ~ 30 MHz) radio with the AME, USB, LSB, LSB-CW, and USB-CW modulation types. This radio includes an internal automatic impedance matching unit capable to operate with rod, wire, and wideband antennas. Mission of the system is establishing the Morse/voice/data communication in long distances using the ionosphere reflections. This type of communication can be established between moveable radios or with a fixed radio. In addition, the radio can establish communication with various types of HF radios. Due to easy operation, proper keypad and display screen, and 100 preset channels, operator can control the radio easily and synchronize it with active networks. PRC-120/E includes three power levels of 5W, 10W, and 20W to establish communication in short and medium distances considered for battery consumption management and radiated power control.



General specifications	
Frequency band	1.6~29.9999 MHz
Frequency channel spacing	100Hz
Number of frequency channels	284000 channels
Number of preset channels	100 channels
Frequency deviation adjustment	10Hz
Modulation type	AME, CW(SSB), SSB(LSB,USB)
Supply	12-18 V
Antenna	wire, rod, wideband
ALE	✓
Receiving specifications	
Receiving sensitivity	SSB: 1μV-15dB (SINAD) CW(SSB): 1μV-20dB (SINAD) AME: 6.5μV-15dB (SINAD)
IF rejection	at least 70dB
Image frequency rejection	at least 70dB
Transmitting specifications	
Output power	Low power: 5W Medium power: 10W High power: 20W
Harmonic rejection	-40dB
Physical & environmental specifications	
Dimension (W×D×H)	24.5×9×34 cm
Weight	4.5kg
Operating temperature	-25°C ~ +65°C
Environmental standard	MIL-STD-810F