

AN/GRC-193 HF Radio Set

Status: STD-A; NSN: 5820-01-133-4195

Reference: Not Available

General Information

The AN/GRC-193 is a medium/high-power vehicular configuration of the IHFR system. It will satisfy those mission requirements which need an HF radio capability greater than the low power/IHFR system. The high-power vehicular/airborne adaptive configuration consists of a basic receiver-transmitter with required coupling device, amplifier, and other ancillary devices for CW voice or teletype operation; NVIS antenna, whip antenna, data I/O device, and external power sources. The radio will have the capability of selectable power (100 W, 400 W). Normal operation will be below 400 W. The AN/GRC-193 utilizes the KY-65 for securing voice traffic and the TSEC/KG-84 for securing data traffic. The antenna may be remoted up to 61 meters (200 ft) from the radio set, using the antenna siting bit which is part of the basic configuration.

Technical Characteristics

Frequency Range-----	2 to 30 MHz, 100 Hz channel separation
Planning Range-----	2,500 miles (4,023.3 km)
Number of Channels-----	280,000
Power Input-----	115 V AC, 50/60 Hz, 24 V DC and 26.5 V DC, vehicular
Power Output-----	Selectable power, 100 W, 400 W
Antenna-----	AT-1011, 4.88 m (16 ft) whip, doublet, long-wire, AN/GRA-50, AS-2259 NVIS
Tuning-----	Automatic digitally controlled
Remote Operation-----	Up to 2 km (1.2 mi) using AN/GRA-39

AN/GRC-193 HF Radio Set

