



TECHNICAL SPECIFICATIONS V100 VHF

Transmitter

Output Power (High) 2.5Watts
Output Power (Low) 1Watt
Modulation ± 5 kHz(max) FM
Emission Designator 16K0G3EJN
Pre-Emphasis 6dB/octave (300Hz to 3kHz)
Spurious Emissions < 0.25 μ Watt

Receiver

Sensitivity (20dB SINAD) -117dBm
Audio Output Power 0.4W
Adjacent Channel Rejection > 70 dB
Intermodulation Rejection > 68 dB
Spurious Response Rejection > 70 dB
Spurious Emissions < 2 nWatt

General

Number of channels (GMDSS: simplex only) 21

Battery

Primary Lithium
Chemistry Lithium/Iron Disulfide (Li/FeS₂)
Operational Lifetime (10% Tx:10% Rx:80% Squelched) > 16 hours
Replacement Interval 5years
Rechargeable Lithium Polymer

Environmental

IEC60945 Category Portable
Operating Temperature Range -20°C to +55°C
Storage Temperature Range -30°C to +70°C

Humidity 93% @ +40°C

Waterproof 1metre for 30minutes

Thermal Shock 100mm with 45°C drop for 1hour

Drop proof (onto hardwood surface) 1metre (6 faces)

Dimensions

Height (Body only) 141mm
Width 68mm (70mm inc. battery tab)
Depth 37mm

Standards and Approvals (pending)

Approval Standards (GMDSS)

IMO regulations A.694(17); MSC.149(77)

VHF IEC61097-12

EMC IEC60945

European approval Marine Equipment Directive A.1/5.17

USA standards (GMDSS) CFR47 part 80.1101