



Images
Specifications
Manuals
Certificates
FAQs

V100 VHF

The Ocean Signal range of survival craft VHF hand portable radiotelephones exceed the requirements of IMO, SOLAS and GMDSS.

- Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use
- Fully waterproof, even 40C thermal shock
- High efficiency transmitter for maximum battery life
- Rugged design exceeds GMDSS environmental requirements
- Lithium primary battery for emergency use
 - Novel battery protection tab protects from inadvertent use
 - Battery classified as non-hazardous for shipment
 - Battery provides in excess of 16 hours typical operation, even at -20°C. (10% Tx, 10% Rx, 80% Squelched)
- Laser etched key legends for durability
- High contrast, backlit LCD and keypad
- Rugged accessory socket option; waterproof to IP68 for use with headsets, helmets, fist mikes, etc.
- 4 scanning modes, D/W, T/W, scan and memory scan
- 21 simplex channels according to IMO SOLAs requirements

The SafeSea V100 survival craft hand portable radiotelephone meets all the requirements of the IMO for carriage on SOLAS ships. Designed to be ultra-rugged and easy to use, both on-board and in distress situations, the V100 is the ideal choice for mandatory and voluntary carriage.

The novel battery protection tab means the primary battery can be permanently attached to the radio without fear of losing its charge. The radio will always be available for use in times of emergency without the need to remove protective labels or the like before use. Simply break off the red protective tab and the radio will be immediately ready to turn on.

For everyday use, Ocean Signal offers a lithium polymer rechargeable battery (RB5V) option is available. The quick release rapid charger provides the ideal solution for keeping the batteries fully charged.

For routine testing of the V100 an alkaline, non-rechargeable, battery (TB6V) is available. This battery has limited life for testing only and not suitable for operational use.

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FREQUENTLY ASKED QUESTIONS

Why are there fewer channels on the V100 than normal VHF handhelds?

GMDSS handheld radios are limited to having the International simplex channels fitted as these are the only ones that can be used ship to ship.

How can I test my VHF radio?

The primary battery for the SafeSea V100 is protected from accidental use by a break off tab, which inhibits the output of the battery. To test the radio, Ocean Signal provide an alkaline test battery, the TB6V. Alternatively, a rechargeable option is available, the RB5V, with charger kit (part number 721S-00622).

SPECIFICATIONS

Transmitter

Output Power (High)	2.5Watts
Output Power (Low)	1Watt
Modulation	

Receiver

Sensitivity (20dB SINAD)	-117dBm
Audio Output Power	0.4W
Adjacent Channel Rejection	

	±5kHz(max) FM	>70dB
Emission Designator	16K0G3EJN	>68dB
Pre-Emphasis	6dB/octave (300Hz to 3kHz)	>70dB
Spurious Emissions	<0.25µWatt	<2nWatt

General

Number of channels (GMDSS: simplex only)	21
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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)

Battery

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

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	