

# GMDSS VHF

## Portable Radiotelephone

### Ocean Signal SafeSea V100

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, a lithium polymer rechargeable battery is an option.

The quick release rapid charger provides the ideal solution for keeping the batteries fully charged.

- 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)
- Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use
- 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.



#### Transmitter

Output Power (High / Low)	2.5 Watts / 1 Watt
---------------------------	--------------------

#### Receiver

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

#### 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	5 years
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	1 metre for 30 minutes
Thermal Shock	100 mm with 45°C drop for 1 hour
Drop proof (onto hardwood surface)	1 metre (6 faces)

#### Dimensions

Height (Body only)	141 mm
Width	68 mm (70 mm inc. battery tab)
Depth	37 mm
Weight	380 g

#### Standards and Approvals (All approvals pending)

IMO regulations	A.694(17); MSC.149(77)
VHF	IEC61097-12
EMC	IEC60945
USA Standards	CFR47 part 80.1101
European approval	Marine Equipment Directive A.1/5.17



(All specifications subject to change without notice)