

# CREWSAFE V100

## Specifications

Regional Profile: Open Loop

General	
Battery Type	3 x 3 Volt LiMnO <sub>2</sub> (Non HAZMAT) CR2 batteries
Operating Time	Minimum 12 hours emergency operation at -10°C (14°F) and longer in warmer conditions
Battery Service Life at +20°C	5 years
Operating Temperature	-20° to +55°C (-4° to +131°F)
Stowage Temperature	-30° to +70°C (-22° to +158°F)
Dimensions	12 x 7.8 x 3cm (4.7 x 3 x 1.22in) excluding antenna and clip
Weight	153g (5.4oz) excluding antenna and clip
Durability	Tested as per IEC Standard 60945
Strobe Light	360° dispersion at 5 candelas. Flash rate 60 flashes per minute.
Environmental Resistance	IP68 (10m for 5 mins)
Mounting Options	Includes clip and lanyard for attachment to webbing, harness or lifejacket pocket/valise
Compass Safe Distance	0.3m (for minimal deflection)
Alerting Radius	2 to 10 nautical miles depending on sea state and height/altitude of receiving antenna
Limited Warranty	2 years (plus optional 3-year extended warranty)
GPS Receiver	
Channels	20 channel parallel
TTF (Time to First Fix)	Typically 45 to 60 seconds
Antenna	Solid state quadrafilar helix
GPS Sensitivity	Acquisition -144dBm; Navigation tracking -159dBm
Antenna	
Antenna Type (Standard)	Vertically polarized helix antenna
VHF DSC Tx Power Output	1 Watt (100mW during testing)
VHF Voice Tx Power Output	1 Watt (100mW during testing)
VHF Transmitter Package	
VHF DSC Channel 70 Alerts	
Initial DSC Alert	20 seconds from water detection and/or manual activation
First DSC GPS Data Alert Sent	Once GPS lock acquired
Subsequent DSC Alerts	Every 5 minutes for 30 minutes (6 total); every 10 minutes thereafter until beacon is switched off or batteries expire
VHF Voice Channel 16 Alerts	
First VHF Voice GPS Data Alert Sent	Once GPS lock acquired and initial DSC GPS data alert sent
Subsequent VHF Voice Alerts	Every 5 minutes for 30 minutes (6 total); every 10 minutes thereafter until beacon is switched off or batteries expire

## Certification and Compliance

Certification	AS/NZS1; C <sup>1</sup> ; ACMA <sup>1</sup> ; IEC <sup>2</sup> ; AMSA; RoHS
Compliance	VHF DSC: Designed according to ITU-R M. 493-11 and ITU-R M. 451-9; Strobe Light: USCG SOLAS Lifejacket Light Requirement; GPS: IEC Standard 61108-1; DSC Transmitter: ITU-R M. 493-11 and ITU-R M. 451-9; Radio-Telephone Voice Transmitter: IEC Standard 60945

<sup>1</sup> AS/NZS 4415.2:2003; Standard 2004; Standards Australia Committee RC/4 MSLS DSC Standards <sup>2</sup> IEC Standard 61108-1 and 60945