

# FINAL VERSION

## VERSION FINALE

**Global maritime distress and safety system (GMDSS) –  
Part 12: Survival craft portable two-way VHF radiotelephone apparatus –  
Operational and performance requirements, methods of testing and required test  
results**

**Système mondial de détresse et de sécurité en mer (SMDSM) –  
Partie 12: Radiotéléphone émetteur-récepteur portable VHF pour embarcation de  
sauvetage – Exigences d'exploitation et de fonctionnement, méthodes d'essai et  
résultats d'essai exigés**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM (GMDSS) –  
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**This Consolidated version of IEC 61097-12 bears the edition number 1.1. It consists of the first edition (1996-12) [documents 80/126/FDIS and 80/136/RVD] and its amendment 1 (2017-07) [documents 80/829/CDV and 80/843/RVC]. The technical content is identical to the base edition and its amendment.**

**This Final version does not show where the technical content is modified by amendment 1. A separate Redline version with all changes highlighted is available in this publication.**

International Standard IEC 61097-12 has been prepared by IEC technical committee 80: Maritime navigation and radiocommunication equipment and systems.

Annexes A and B form an integral part of this standard.

Annex C is for information only.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

**GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM (GMDSS) –  
Part 12: Survival craft portable two-way VHF radiotelephone apparatus**  
–  
**Operational and performance requirements, methods of  
testing and required test results**

## 1 Scope

This part of IEC 61097 specifies the minimum performance requirements, technical characteristics and methods of testing with required test results of survival craft portable two-way radiotelephone apparatus as required by chapter III of the 1988 amendments to the 1974 International Convention for the Safety of Life at Sea (SOLAS), and which is associated with IEC 945. When a requirement in this standard is different from IEC 945, the requirement in this standard shall take precedence.

This standard incorporates the applicable parts of the performance requirements included in IMO Resolution MSC.149(77) and the technical characteristics included in IEC M.489-2 and ITU-R M.542-1, and takes account of the general requirements contained in IMO Resolution A.694(17), and conforms with the ITU Radio Regulations where applicable.

NOTE – All text of this standard, whose wording is identical to that in IMO Resolution MSC.149(77) and A.694(17) and ITU-R M.489-2 is printed in italics and the Resolution/Recommendation and paragraph numbers are indicated in brackets.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61097. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 61097 are encouraged to investigate the possibility of applying the most recent edition of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 529:1989, *Degrees of protection provided by enclosures (IP code)*

IEC 945:1994, *Marine navigational equipment – General requirements – Methods of testing and required test results*

IMO International Convention for the Safety of Life At Sea (SOLAS):1974, as amended 1988 (GMDSS) – *Chapter III: Life-saving appliances and arrangements*

IMO Resolution A.694(17):1991, *General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids*

IMO Resolution MSC.149(77):2003, *Revised performance standards for survival craft portable two-way VHF radiotelephone apparatus*

ITU Radio Regulations:1995, *Appendix S3: Table of maximum permitted spurious emissions power levels*

ITU Radio Regulations:1990, *Appendix 18: Table of transmitting frequencies in the band 156 – 174 MHz for stations in the maritime mobile service*

ITU-R M.489-2:1995, *Technical characteristics of radiotelephone equipment operating in the maritime mobile service in channels spaced by 25 kHz*

ITU-R M.542-1:1982, *On-board communications by means of portable radiotelephone equipment*