

Australian Standard[®]

**Radiocommunications equipment used
in the inshore boating radio services
band**

STANDARDS
Australia



This Australian Standard® was prepared by Committee RC-004, Radiocommunications Equipment—Maritime and Safety of Life. It was approved on behalf of the Council of Standards Australia on 3 November 2006.
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The following are represented on Committee RC-004:

- Australian Communications and Media Authority
 - Australian Electrical and Electronic Manufacturers Association
 - Australian Federal Police
 - Australian Marine Industries Federation
 - Australian Maritime Safety Authority
 - Civil Aviation Safety Authority
 - Electromagnetic Technical Evaluation Committee
 - Maritime Safety Authority, NZ
 - Ministry of Economic Development, NZ
 - New Zealand Marine Safety Interests
 - State Maritime Service Departments
 - State Police/Emergency Services
 - Volunteer Marine Rescue Australia
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-

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee RC-004, Radiocommunications Equipment—Maritime and Safety of Life to supersede AS 4367—1996. It was developed from a Department of Transport and Communications (Australia) document ECR 244 Radiocommunications Equipment used in the 27 MHz Inshore Boating Service.

This is one of a series of Standards dealing with radiocommunications equipment under the terms of a Memorandum of Understanding between Standards Australia and the Australian Communications and Media Authority.

The Standard was revised to introduce tolerances to the transmitter power measurement and change equipment identification requirement.

This Standard is a result of consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard, as the Inshore Boating Service does not exist in New Zealand.

The objective of this Standard is to specify the essential radiofrequency requirements and minimum standards for radiocommunications equipment to operate in the Inshore Boating Radio Service (IBRS) at frequencies not exceeding 30 MHz, and to provide methods of testing to confirm compliance to those requirements.

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STANDARDS AUSTRALIA

Australian Standard

Radiocommunications equipment used in the inshore boating radio services band**1 SCOPE**

This Standard specifies the essential requirements and minimum standards for operation of the radiocommunications aspects of all radiocommunication equipment used in the Inshore Boating Radio Service (IBRS) operating at frequencies specified in Table 1.

The equipment covered by this Standard includes—

- (a) IBRS radios operating on frequencies not exceeding 30 MHz; and
- (b) multi-role devices.

Clauses 5 and 6 of this Standard do not apply to a multi-role device in respect of its operation in services other than the IBRS radio service. IBRS equipment includes equipment used in—

- (i) limited coast stations;
- (ii) ship stations; and
- (iii) handheld stations.

2 DEFINITIONS

For the purposes of this Standard, the definitions below apply.

2.1 A3E

An emission whose basic characteristic is that of a double sideband, amplitude modulated single channel carrier containing primarily analogue telephony information.

2.2 ALC threshold

The operating point on a transmitter output power characteristic at which an increase in the modulating signal level does not cause a proportional increase in output power. The ALC threshold is established when 1 dB compression is reached.

2.3 Battery end-of-life voltage

The manufacturer's declared voltage below which the battery is incapable of operating the equipment in accordance with the manufacturer's stated specifications.

2.4 Channel

A 1 kHz band centred on the nominal carrier frequency.

2.5 Declared carrier power (A3E)

The maximum carrier power declared by the manufacturer as available at the transmitter output, under standard test conditions, when the unmodulated transmitter is operated into a non-radiating artificial antenna. This is limited to a maximum of 4 W.