Australian Standard[™]

Stand-alone power systems

Part 2: System design guidelines



This Australian Standard was prepared by Committee EL-042, Renewable Energy Power Supply Systems and Equipment. It was approved on behalf of the Council of Standards Australia on 11 February 2002 and published on 29 March 2002.

The following interests are represented on Committee EL-042:

Alternative Technology Association

Australian Electrical and Electronic Manufacturers Association

Electricity Supply Association of Australia

Ministry of Economic Development, New Zealand

National Electrical and Communications Association

Regulatory Authorities (Electrical)

Sustainable Energy Industry Association of Australia

The University of New South Wales

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-042, Renewable Energy Power Supply Systems and Equipment. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide guidelines for the design of stand-alone power systems used for the supply of extra-low and low voltage electric power.

This Standard was originally prepared following requests from interests involved in the solar energy industry who perceived a need for safety, design, installation and maintenance procedures appropriate to the industry.

This Standard was developed with the assistance of the following organizations:

(a) NSW Department of Energy.

- (b) Australian CRC for Renewable Energy.
- (c) Australian Greenhouse Office.
- (d) Queensland Government.

This Standard is Part 2 of a series which consists of the following:

AS

4509	Stand-alone power systems
4509.1	Part 1: Safety requirements
4509.2	Part 2: System design guidelines (this Standard)
4509.3	Part 3: Installation and maintenance

Any comments on the Standard that users wish to submit will be considered by Committee EL-042 when the Standard is next reviewed. Submissions should be forwarded to—

Projects Manager, EL-042 Standards Australia GPO Box 5420 SYDNEY NSW 2001

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is for information and guidance.

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