

Technical Specification

Photovoltaic (PV) systems — Requirements for testing, documentation and maintenance

Part 3: Photovoltaic modules and plants — Outdoor infrared thermography (IEC TS 62446-3:2017, MOD)



SA/SNZ TS 62446.3:2020

This Joint Australian/New Zealand Technical Specification was prepared by Joint Technical Committee EL-042, Renewable Energy Power Supply Systems and Equipment. It was approved on behalf of the Council of Standards Australia on 25 March 2020 and by the New Zealand Standards Executive on 6 March 2020.

This Technical Specification was published on 3 April 2020.

The following are represented on Committee EL-042:

- Australasian Fire and Emergency Service Authorities Council
- Australian Energy Council
- Australian Energy Market Operator
- Australian Industry Group
- Australian PV Institute
- Clean Energy Council, Australia
- Clean Energy Regulator, Australia
- Communications, Electrical and Plumbing Union — Electrical Division, Australia
- Consumer Electronics Suppliers Association, Australia
- Consumers' Federation of Australia
- CSIRO
- Electrical Compliance Testing Association of Australia
- Electrical Regulatory Authorities Council, Australia
- Electrical Safety New Zealand
- Electricity Engineers Association of New Zealand
- Energy Efficiency and Conservation Authority, New Zealand
- Energy Networks Australia
- Engineers Australia
- Institute of Electrical and Electronics Engineers, Australia
- Institute of Electrical Inspectors, Australia
- Joint Accreditation System of Australia and New Zealand
- Master Electricians Australia
- National Electrical and Communications Association, Australia
- NSW FairTrading
- Office of the Technical Regulator, SA
- Smart Energy Council, Australia
- Solar Energy Industries Association, Australia
- Sustainable Electricity Association New Zealand
- Sustainable Energy Association of Australia
- University of New South Wales
- Wellington Electrical Association
- WorkSafe New Zealand

This Technical Specification was issued in draft form for comment as DR SA/SNZ TS IEC 62446.3:2019.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76072 800 7

Technical Specification

Photovoltaic (PV) systems — Requirements for testing, documentation and maintenance

Part 3: Photovoltaic modules and plants — Outdoor infrared thermography (IEC TS 62446-3:2017, MOD)

First published as SA/SNZ TS 62446.3:2020.

COPYRIGHT

© IEC 2020 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2020

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

Preface

This Technical Specification was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-042, Renewable Energy Power Supply Systems and Equipment.

The objective of this Technical Specification is to define outdoor thermographic (infrared) inspection of PV modules and plants in operation. This inspection supports the preventive maintenance for fire protection, the availability of the system for power production, and the inspection of the quality of the PV modules. This document lays down requirements for the measurement equipment, ambient conditions, inspection procedure, inspection report, personnel qualification and a matrix for thermal abnormalities as a guideline for the inspection.

This Technical Specification is an adoption with national modifications, and has been reproduced from, IEC TS 62446-3:2017, *Photovoltaic (PV) systems — Requirements for testing, documentation and maintenance — Part 3: Photovoltaic modules and plants — Outdoor infrared thermography*. The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to IEC TS 62446-3:2017 for the application of this Technical Specification in Australia and New Zealand.

As this document has been reproduced from an International Technical Specification, the following applies:

- (a) In the source text “this part of IEC 62446” should read “this Australian/New Zealand Technical Specification”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

NOTES

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-