

## 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.

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## 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.

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