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PV Module Testing Capability & Expertise



rise
Research Institute for
Sustainable Energy

Background

RISE has established a strong track record and a reputation for professional excellence in the area of PV module testing. Having worked with Australian and international clients for over ten years, RISE is able to offer an independent testing service that is tailored to meet the changing needs of the PV industry.

Performance Testing

Laboratory and field testing of PV modules is carried out at our Perth base, with additional field sites available at Alice Springs and Darwin. Performance testing is split into the following categories :

- IEC design qualification testing: A range of electrical performance tests from IEC 61215 and IEC 61646 including:

- Maximum power determination
- Insulation test
- Measurement of temperature coefficients
- Measurement of nominal operating cell temperature (NOCT)
- Performance at STC and NOCT
- Performance at low irradiance levels
- Outdoor exposure test
- Hot-spot endurance test
- Wet leakage current test
- Bypass diode thermal test

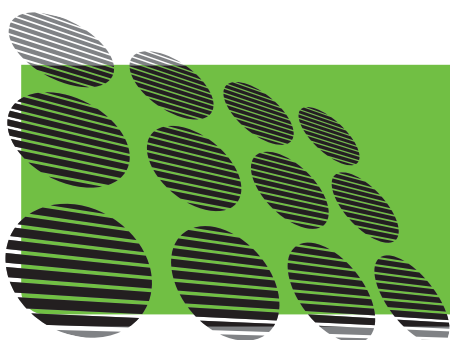
- Energy yield testing: Operation at MPP over a specified period of time
- Long term outdoor exposure testing: Assessment of performance degradation over time
- Batch testing: Performance assessment of large production volumes based on sampling techniques

Safety Testing

Having developed considerable expertise through our NATA-accredited test facility, RISE offers a range of electrical safety tests from IEC 61730 including the following :

- Accessibility test (shock / hazard)
- Ground continuity test
- Wet leakage test
- Impulse voltage test
- Dielectric withstand test
- Reverse current withstand test

In response to rising demand from industry, RISE is continually enhancing its PV module testing capability and is seeking to provide full compliance testing to IEC 61215, IEC 61646 and IEC 61730 in the near future.



For more information or to obtain a price quotation, please contact
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