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## Inverter Testing



**rise**  
Research Institute for  
Sustainable Energy

### Background

RISE has provided high quality support to the renewable energy industry for many years. With a significant focus on testing and standards development, RISE is at the forefront of renewable energy systems technology. Through its professional complement of staff, RISE assists manufacturers, retailers, and installers to deliver safe and reliable products to consumers. RISE achieved NATA accreditation in 2005 for the testing of both grid-connected and stand-alone inverters. Such accreditation is highly regarded, both nationally and internationally, as a reliable indicator of technical competence.

### Grid Connected Inverter Testing to AS 4777

Single phase systems	Small systems up to 5 kVA Large systems up to 15 kVA
Three phase systems	Up to 50 kVA
Limitations to testing	DC inputs up to 750 V; maximum input current up to 110 A (at 180 V)

### Stand-alone Inverter Testing

Measure performance and reliability characteristics as per the in-house test protocols developed for the following:

Single phase systems	Small systems up to 5 kVA Large systems up to 15 kVA
Three phase systems	Up to 50 kVA

A wide range of nominal battery bank voltages are available from 12 Vdc to 240 Vdc.

### Specialised Facilities

These include a 45 kW programmable AC source, a 25 kW PV array simulator, a walk-in environmental chamber capable of -5 °C to 65 °C, a 70 kW DC generator up to 800 V, various wide band high precision power analysers and data logging systems.

### Training Courses

RISE regularly delivers in-house and off-site training courses aimed at designers, technicians and installers of grid-connected and stand-alone systems.



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

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