

PV Protection Switchboard



- Meets the requirements of the Network Provider (Western Power, Horizon Power and others)
- Suitable for harsh environments
- Switchgear components from ABB, Schneider or equivalent
- Spares easily available in Australia



Two Part Design

1. Secondary Protection Relay board
2. PV AC distribution board

Single board configuration is also available on request.

Advantages of Two Part configuration

- Power and Control circuits separated
- The two switchboards do not have to be located together
- The control part can be attended to without shutting down the power circuit

Secondary Protection Relay Board

- Protection Relay – ComAp, Woodward, SEL, configured
- Factory Injection Testing for Protection Relay
- Power Supply with optional battery back-up

Options:

- Failsafe wireless link between Relay and PV switchboards where cabling is not possible
- Energy meter (NMI or Standard)
- Energy meter with Power Quality
- Remote Monitoring and Management
- Reverse Power Control
- 3G/4G GSM Modem

PV AC distribution board

Standard Range

| | | |
|---------------------------|---|-----------------------------------|
| Rated Capacity | 100kVA | 150kVA |
| Incoming Isolator | 160A | 250A |
| Inverter Feeders | 4 | 6 |
| Inverter Circuit Breakers | 50A (suitable for 30kVA inverter) | 50A (suitable for 30kVA inverter) |
| Contactors (AC1 Rating) | 160A | 225A |
| Operating Temperature | 0°C to 50°C | |
| Protection | IP54 | |
| Construction | Wall mounted. Grey, powder coated steel | |
| Standards | AS3000, AS3439, AS61439 and other relevant Australian and International standards | |
| Size H x W x D (mm) | 500 x 500 x 260 | 600 x 500 x 260 |
| Weight (kg) | 30 | 38 |

Other Variants

- Suitable for 50kVA and 60kVA inverters
- Suitable for Micro inverters

Custom Designs

- Dual Relay protection, if required
- Special Relay for NVD protection. Required for HV connected systems.
- Custom configurations are available, depending on the site requirements
- For larger systems up to 1000kVA multiple custom switchboards are offered
- Flexible Electronic CTs where ordinary CTs cannot be used