



SOLAR INVERTER GRID-TIE, TRANSFORMERLESS, 1kW to 4kW



The Geoprotek GS Series Grid Feed Inverters are an exciting new product range of PV grid feed inverters to join Solar Energy Australia (SEA) product offering. Built in a compact, lightweight package which incorporates the latest in inverter technology.

The compact design is no bigger than a mini desktop CPU, designed for quick and easy installation. An IP65 waterproof cabinet rating, allows for indoor or outdoor mounting of the units. It incorporates simple communication and multiple monitor solutions, making the GS series inverters user friendly. Keeping in mind user safety, the units provide the necessary anti-islanding and GFCI protection. With an output rating starting from 1.5KW it is suitable for domestic and small commercial installations.

Product Description

The GS series inverters are a high efficiency, non-isolated DC-AC true sine wave inverter, designed for PV grid feed applications.

The compact and light weight nature of the GS inverters, allows the inverter to be easily installed in the smallest properties. With its IP65 rating, mounting on the interior or exterior of a home or building is a matter of choice.

The unit operates from a photovoltaic (PV)/solar array DC power source and generates a sine wave current output for direct connection to the 240VAC 50Hz L.V. power grid.

The GS employs a MPPT (maximum power point tracker) for efficient use of the PV power systems and is supplied with a built-in PV earth leakage detector for your protection.

An LCD display allows for monitoring of the instantaneous power, voltage and frequency of the inverter. Also display any fault conditions should it occur. Two status LED, indicate condition status of the inverter. There are communication options for RS 485, wireless, Ethernet or Bluetooth.

The units are compliant with AS/NZS4777 "grid connection of Energy Systems Via inverters", and AS/NZS 3100: 2002" Approval and test specification – general requirements for electrical equipment", and are C-tick approved.

Product Features

- High efficiency >95% typical
- Wide built-in MPPT (Maximum Power Point Track) range
- High reliability with dual micro controllers
- Natural convection cooled, fan-less design
- Compact low weight high power density design
- User friendly LCD showing status information.
- RS232 communications with RS485 and other communications options
- Solar array earth leakage protection
- Approved to AS/NZS 4777, AS/NZS3100 and C tick Compliant
- Stylish and modern design with Easy installation
- IP65 outdoor rating

Specifications

Model	GS-1500
PV Connection	
MPPT input range	150-500 VDC
Maximum DC input voltage (VOC) (Non operating)	500 VDC
Maximum input current	7.5 ADC
Maximum input ISC	11.25 ADC
MPP tracker	1
Grid Connection	
Maximum Power output	1650W (1500Wcont)
Output voltage (nom)	240 VAC
Output frequency	50 Hz
Maximum output current	6.6 A
Wave shape	Sinusoidal
General	
Topology	Non Isolated Transformerless
Efficiency	>95%
Weight	14KG
Size W x H x D (mm)	380 x 300 x 133
Protection	IP65 Outdoor
Warranty	5 years
Approvals	AS/NZS 3100, 4777, C-tick

Please Note: Specifications may be subject to change

Optional Accessories

- GS RS 485 Modbus card
- GS Home Touch
- GS Logger



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