Engineered for Australian conditions, the Orion is an exciting inverter from SEA incorporating all of SEA’s extensive experience with inverter manufacturing in a compact, lightweight and quiet package.

Not much bigger than a TV set-top box, the Orion is designed specifically for small to medium solar installations in Australia. User friendly, the tried-and-trusted Orion inverter is the smart choice for economical PV installs, reducing install costs whilst still benefiting from the security of local backup from a major industry player.

Model No. SPG-360-2K0-1 Specifications

Grid Connection
- Continuous Power Output: 2000W
- Output Voltage: 240Vac / 50Hz
- Output current: 10A
- Wave shape: Sinusoidal

PV Connection
- Input Voltage Range (for full output): 125-500Vdc
- Turn On Voltage: 250-400Vdc
- MPPT range: 150-450Vdc
- Max input voltage: 500Vdc
- Max input current: 10Adc
- Max input ISC: 20Adc
- Connectors: MC4 compatible (supplied)

General
- Topology: Non Isolated
- Efficiency (typ): >95%
- Weight (kg): 11.2
- Size W x D x H (mm): 350 x 300 x 120
- Approvals: AS/NZS 3100, 4777, C-Tick
- Warranty: 2 years
- AC Voltage: Can be adjusted for Western Power, ERGON, etc.
Product Description

The Orion is a highly efficient, true sine wave, non-isolated DC to AC inverter designed especially for solar grid-feeding applications.

Being small, lightweight and virtually silent Orion lends itself to easy installation in the smallest of properties.

A typical installation would be on an internal garage wall.

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

The Orion employs a MPPT (maximum power point tracker) for efficient use of the PV power system and is supplied with a built-in PV earth leakage detector for your protection. The unit can feed in excess of 2kW to the grid when supplied with a suitable solar array, typically 20 to 25 sq m.

A user friendly, backlit, LCD display allows full monitoring of instantaneous power, voltage and frequency as well as inverter status. The inverter is programmed and controlled using a single function button, the LCD display and two status LEDs.

The Orion is also provided with a standard RS232 socket for connection to a PC for data acquisition. There are several optional components for state of the art communications via RS 485.

The unit is compliant with: AS/NZS 4777 “Grid Connection of Energy Systems Via Inverters“, and AS/NZS 3100 “Approval and test specification – General requirements for electrical equipment“ and is C-Tick approved.