

ORION

Thousands installed in Australia

High efficiency, compact, lightweight

Natural convection cooling,
quiet fan-less design

New Upgrade

Fast installation

2 Year Warranty



GRID FEEDING INVERTERS 2kW

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	125-500Vdc
(for full output)	250-400Vdc
Turn On Voltage	150Vdc
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 Features

- Very high conversion efficiency >95% typical
- Natural convection cooling, quiet fan-less design
- High reliability with dual micro controllers
- Built in MPPT (Maximum Power Point Tracker)
- High power density, compact profile, low weight
- User friendly LCD display showing complete status
- RS232 communications with RS485 and network options
- Solar array earth leakage protection for your safety
- Approved to AS/NZS 4777, AS/NZS 3100 and C Tick compliant
- Made in Taiwan
- Easy installation
- Economical outdoor enclosure available



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.

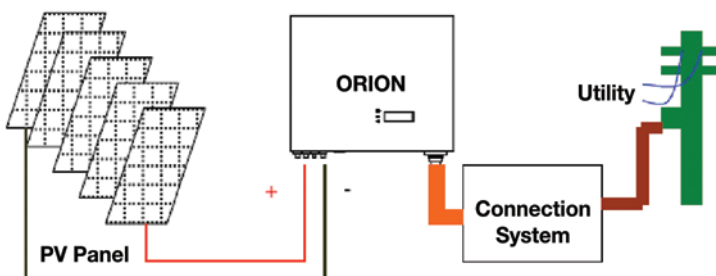
The unit operates from a photovoltaic (PV) / solar array DC power source and generates a sinewave current output for direct connection to the 240VAC 50Hz L.V. power grid.

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.



Sydney (Head Office): 4 Beaumont Road Mt Kuring-Gai NSW 2080

Melbourne: 896 Burwood Highway, Ferntree Gully VIC 3156

Tel: (02) 9457 2277 Fax: (02) 9457 2255

Tel: (03) 9753 5344 Fax: (03) 9753 5700

Email: sales@solaraustralia.com.au Web Site: www.solaraustralia.com.au