

ORION GRID FEEDING INVERTERS 2kW

Thousands installed in Australia

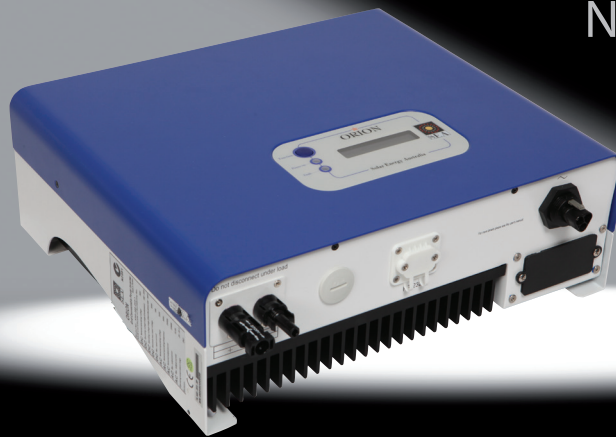
High efficiency, compact, lightweight

Natural convection cooling,
quiet fan-less design

New Upgrade

Fast installation

5 Year Warranty



The Orion is an exciting new product from SEA incorporating all SEA's extensive experience of grid feeding inverters in a compact, lightweight, quiet (fan less) package.

Not much bigger than a small Hi Fi amplifier, Orion is designed specifically for the small to medium size domestic installation. The Orion is particularly user friendly and easy for a professional to install. With an output rating of 2 kW* it is powerful enough to make a major impact on day-to-day electricity costs.

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

Grid Connection

Continuous Power Output	2000W
Output Voltage	240VAC
Output frequency	50Hz
Output current	10A
Wave shape	Sinusoidal

PV Connection

Input Voltage Range	125-400VDC
(for full output)	250-400VDC
Turn On Voltage	150VDC
MPPT range	150-450VDC
Max input voltage	500VDC
Max input current	10ADC
Max input ISC	20Amps

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	5 years

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 information
- 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
- Stylish, modern casing
- Easy installation



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.

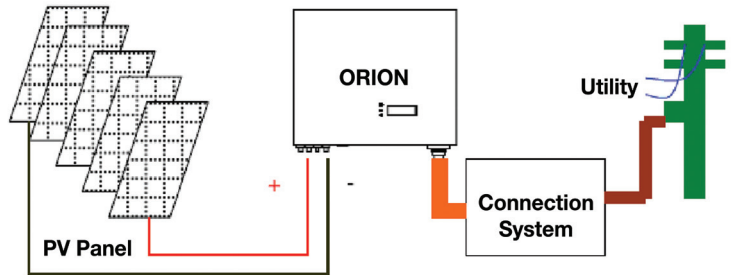
The Orion employs a MPPT (maximum power point tracker) for efficient use of the PV power system and is supplied with a built-in PV earth leakage detector for your protection. The unit can feed in excess of 2kW to the grid when supplied with a suitable solar array, typically 20 to 25 sq m.

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.



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