



Powersine

professional DC to AC true sinewave inverter

Description | The PS1000-12 up to PS1800-48 professional DC to AC true sinewave inverters, offer superior performance for a wide range of applications. Unlike many other inverters, the very clean and interference free output of a Powersine inverter ensures correct operation of sensitive equipment like displays, test equipment and battery chargers.

The very robust electronic and mechanical design, make the Powersine inverter series the best choice for reliability. Designed for an extremely long lifespan and protected against short circuits, overloading and high temperatures, a Powersine inverter will deliver trouble free operation for many years.

The newest available technology results in extremely efficient operation with very low 'no-load' consumption. The Automatic Standby Function (ASB), standard in all Powersine inverters, will even reduce the no-load consumption by an extra 70%!

All Powersine inverters are easy to install and operate. Each Powersine inverter comes standard with DC cables, and a very clear installation and operating instruction manual.

Features

- True sinewave AC output
- Robust industrial design
- High surge power output
- Very efficient
- Protected against high/low battery voltage, high temperature, overload, short circuit and high ripple voltage
- Automatic Standby function to reduce no-load power consumption
- Variable speed fan for silent operation
- Remote on/off capability
- Alarm relay
- Remote control capability via TBSLink
- Easy to access connection bay for installing AC-, DC and control wiring
- 1.5 meters DC connection cable included
- CE certified
- 24 month warranty

Applications

- Recreational vehicles
- Marine applications
- Solar power systems
- Industrial systems
- Mobile entertainment systems
- Service vehicles
- Remote homes

Accessories

- Universal Remote Control with LCD¹⁾
- Basic Remote Control with LEDs²⁾
- TBSLink communication kit including software



Technical specifications

| Parameter | PS1000-12 (art. no. 5006100) | PS1400-24 (art. no. 5006120) | PS1600-12 (art. no. 5006300) | PS1800-24 (art. no. 5006320) | PS1800-48 (art. no. 5006360) |
|--|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Output power ¹⁾ | Pnom | 850W | 1000W | 1300W | 1400W |
| | P10minutes | 1050W | 1450W | 1600W | 1800W |
| | Psurge | 2000W | 2800W | 2500W | 3000W |
| Output voltage | 230Vac ± 2% | | | | |
| Output frequency | 50Hz or 60Hz ± 0.05% | | | | |
| Output waveform | True sinewave (THD < 5% ¹⁾ @ Pnom) | | | | |
| Allowed cos φ of load | 0.2 – 1 (up to Pnom) | | | | |
| Input voltage (±3% tolerance) : Nominal | 12Vdc | 24Vdc | 12Vdc | 24Vdc | 48Vdc |
| | Range | 10.5 ²⁾ – 16Vdc | 21 ²⁾ – 32Vdc | 10.5 ²⁾ – 16Vdc | 21 ²⁾ – 32Vdc |
| Maximum efficiency | 92% | 92% | 92% | 92% | 94% |
| No load power consumption ³⁾ [ASB] | <9.6W | <12W | <9.6W | <12W | <12W |
| | [2.5W] | [3.5W] | [2.5W] | [3.5W] | [4.7W] |
| ASB threshold | Pout=10W | | | | |
| Operating temperature range (ambient) | -20°C ... +50°C (humidity max. 95% non condensing) | | | | |
| Storage temperature range | -40°C ... +80°C (humidity max. 95% non condensing) | | | | |
| Cooling | Variable speed fan controlled by temperature and load | | | | |
| TBSLink enabled | Yes | | | | |
| Protected against | Short circuit, overload, high temperature, AC back feed, high/low battery voltage and high input ripple voltage | | | | |
| Indications | Power on, output power bar, error and ASB mode | | | | |
| DC input connections (cable length 1.5m) | 2 x 25mm ² | | 2 x 35mm ² | | 2 x 25mm ² |
| AC output connections | Screw terminals | | | | |
| Enclosure body size | 351 x 210 x 114mm | | | | |
| Total weight | 10.2 kg | | 10.5 kg | | |
| Protection class | IP21 (mounted in upright position) | | | | |
| Standards | CE marked meeting EMC directive 2004/108/EC and LVD 2006/95/EC complying with EN60335-1, RoHS 2002/95/EC | | | | |

Note: the given specifications are subject to change without notice.

- ¹⁾ Measured with resistive load at 25°C ambient. Power ratings are subject to a tolerance of 10% and are decreasing as temperature rises with a rate of approx. 1.2%/°C starting from 25°C.
²⁾ Undervoltage limit is dynamic. This limit decreases with increasing load to compensate the voltage drop across cables and connections
³⁾ Measured at nominal input voltage and 25°C

Dimensions

