



Powersine

professional DC to AC true sine wave inverter

Description | The PS1600-12, PS1800-24 and PS1800-48 professional DC to AC true sine wave 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 sine wave 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⁾
- TBSLink communication kit including software



Technical specifications

Parameter		PS1600-12	PS1800-24	PS1800-48
Output power ¹⁾	Pnom	1300VA	1400VA	1400VA
	P10minutes	1600VA	1800VA	1800VA
	Psurge	2500VA	3000VA	3000VA
Output voltage		230Vac ± 2% or 115Vac ± 2%		
Output frequency		50Hz ± 0.05% or 60Hz ± 0.05%		
Output waveform		True sinewave (THD < 5% ¹⁾ @ Pnom)		
Admissible cos φ of load		0.2 – 1 (up to Pnom)		
Input voltage (±3% tolerance) :	Nominal	12V	24V	48V
	Range	10.5 ²⁾ – 16Vdc	21 ²⁾ – 32Vdc	41 ²⁾ – 60Vdc
Maximum efficiency		92%	92%	94%
No load power consumption ³⁾ [ASB]		<9.6W	<12W	<12W
		[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		Two wires, length 1.5 meters, 35mm ²		25mm ²
AC output connections		Screw terminals		
Enclosure body size		351 x 210 x 114mm		
Total weight		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

