

Description



The Powersine range of 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, separate IEC320 plug and a very clear installation and operating instruction manual.

Features

- ▶ True sinewave AC output
- ▶ Robust design
- ▶ High surge power output
- ▶ Very efficient
- ▶ Protected against high/low battery voltage, high temperature, overload and short circuit
- ▶ Automatic Standby function to reduce no-load power consumption
- ▶ Variable speed fan for silent operation
- ▶ IEC320 worldwide accepted AC outlet (IEC320 plug included)
- ▶ 1.5 meters DC connection cable included
- ▶ CE and e-mark certified
- ▶ 24 month warranty

Applications

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

Designed to power your

- ▶ TV
- ▶ Battery charger
- ▶ Small test & measurement equipment
- ▶ Notebook computer
- ▶ Portable work light
- ▶ DVD player
- ▶ Cell phone, PDA chargers
- ▶ Small thermal printer

Technical specifications

Parameter		PS300-12	PS350-24	PS450-48
Output power ¹⁾ :	Pnom	250VA	300VA	300VA
	P10minutes	330VA	360VA	450VA
	Psurge	700VA	800VA	800VA
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	12Vdc	24Vdc	48Vdc
	Range	10.5 ²⁾ – 16Vdc	21 ²⁾ – 31Vdc	41 ²⁾ – 60Vdc
Maximum efficiency		91%	93%	95%
No load power consumption ³⁾ [ASB]		<3W [0.7W]	<3.5W [0.8W]	<6.5W [1.3W]
Operating temperature range (ambient)		-20°C to +50°C		
ASB threshold		Pout=12W	Pout=15W	Pout=15W
Protections against		Short circuit, overload, high temperature and low battery voltage		
Indications (by pre-programmed flashing sequences of the power LED)		Power on, short circuit/overload, high temperature, high/low battery voltage and ASB mode		
DC input connection		Two wires, length 1.5 meters, Ø 4mm ²		
AC output connection		IEC-320 outlet		
Enclosure body size		184 x 98 x 130mm (without mounting brackets)		
Total weight		3.5kg	3.5kg	3.5kg
Protection class		IP20		
The inverter complies with the following standards		EN61000-6-3 (EN55022), EN61000-6-2 (EN61000-2/3/4, EN61000-4-3), LVD 73/23/EEC (EN60335-1), e4-95/54/EC, RoHS 2002/95/EC		

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

- 1) Measured with resistive load at 25°C. Power ratings are subject to a tolerance of 4% 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

