



tbs electronics



Powersine

professional DC to AC true sine wave inverter

Description | The PS200-12, PS200-24 and PS200-48 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, separate IEC320 plug and a very clear installation and operating instruction manual.

Features

- True sine wave AC output
- Robust design
- High surge power output
- Very efficient
- Protected against 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
- Marine applications
- Solar power systems
- Industrial systems
- Mobile entertainment systems
- Service vehicles
- Remote homes

Designed to power your..

- Small CRT or flatpanel TV
- Notebook computer
- Small battery charger
- Portable work light
- Small test & measurement equipment
- DVD/Blu-ray player
- Cell/Smart phone charger
- Small thermal printer

Parameter		PS200-12	PS200-24	PS200-48
Output power ¹⁾	Pnom	175VA	175VA	175VA
	P10minutes	210VA	220VA	220VA
	Psurge	400VA	500VA	500VA
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⁾ – 31Vdc	41 ²⁾ – 60Vdc
Maximum efficiency		90%	91%	93%
No load power consumption ³⁾		<2.8W	<3W	<4W
[ASB]		[0.6W]	[0.8W]	[1.2W]
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		No		
Protected against		Short circuit, overload, high temperature, low battery voltage		
Indications		Power on, error and ASB mode		
DC input connections		Two wires, length 1.5 meters, 4mm ²		
AC output connections		IEC320 outlet		
Enclosure body size		154 x 98 x 130mm (without mounting brackets)		
Total weight		2.4 kg		
Protection class		IP20		
Standards		CE marked meeting EMC directive 2004/108/EC and LVD 2006/95/EC complying with EN60335-1, e4-95/54/EC, RoHS 2002/95/EC		

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

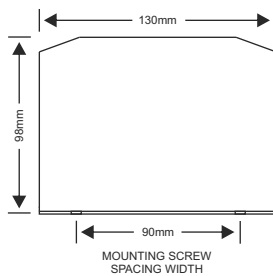
¹⁾ Measured with resistive load at 25°C ambient. Power ratings are subject to a tolerance of 4% and are decreasing as temperature rises with a rate of approx. 1.2%/°C starting from 25°C

²⁾ Undervoltage limit is dynamic. This limit decreases with increasing load to compensate the voltage drop across cables and connections

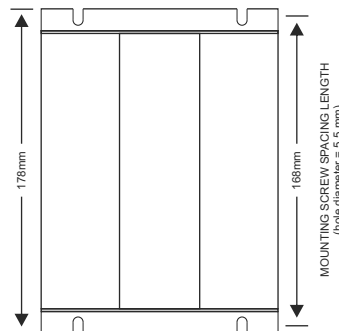
³⁾ Measured at nominal input voltage and 25°C

Dimensions

Front view



Top view



Side view

