

Description

The PS300-12 up to PS800-48 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 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
- Schuko type AC outlet (other outlet types are optionally available)
- 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...

- TV
- Computer
- Battery charger
- Portable work light
- Test & measurement equipment
- Smart phone charger
- Thermal printer

Technical specifications

Parameter		PS300-12 art # 5003000-1	PS350-24 art # 5003100-1	PS450-48 art # 5003300-1	PS600-12 art # 5004000-1	PS800-24 art # 5004100-1	PS800-48 art # 5004300-1
Output power ¹⁾	P _{nom}	250W	300W	300W	500W	600W	600W
	P _{10minutes}	330W	360W	450W	600W	800W	800W
	P _{surge}	700W	800W	800W	1000W	1200W	1250W
Output voltage		230Vac ± 2% (115Vac ± 2% optional) / True sinewave (THD < 5% ¹⁾ @ P _{nom})					
Output frequency		50Hz ± 0.05% (60Hz ± 0.05% optional)					
Input voltage	Nominal	12Vdc	24Vdc	48Vdc	12Vdc	24Vdc	48Vdc
	(±3% tolerance) Range	10.5 ²⁾ -16.0Vdc	21.0 ²⁾ -31.0Vdc	41.0 ²⁾ -60.0Vdc	10.5 ²⁾ -16.0Vdc	21.0 ²⁾ -31.0Vdc	41.0 ²⁾ -60.0Vdc
Maximum efficiency		91%	93%	95%	92%	93%	94%
No load power consumption ³⁾		<3W	<3.5W	<6.5W	<4.8W	<6.5W	<8.2W
[ASB]		[0.7W]	[0.8W]	[1.3W]	[0.4W]	[0.7W]	[0.5W]
ASB threshold		P _{out} =12W	P _{out} =15W	P _{out} =15W	P _{out} =15W	P _{out} =15W	P _{out} =15W
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					
Communication port		No					
Remote on/off		No	No	No	Yes	Yes	Yes
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, 4 mm ²			Two wires, length 1.5 meters, 10 mm ²		
AC output connections		Schuko outlet ⁴⁾					
Enclosure body size		184 x 98 x 130 mm (without mounting brackets)			228 x 113 x 163 mm (without mounting brackets)		
Total weight		3.5 kg			6.2 kg		
Protection class		IP20					
Standards		CE marked meeting EMC directive 2014/30/EU and LVD 2014/35/EU complying with EN60335-1, e4-95/54/EC, RoHS 2011/65/EU					

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.

⁴⁾ Also available are the following AC outlet types:



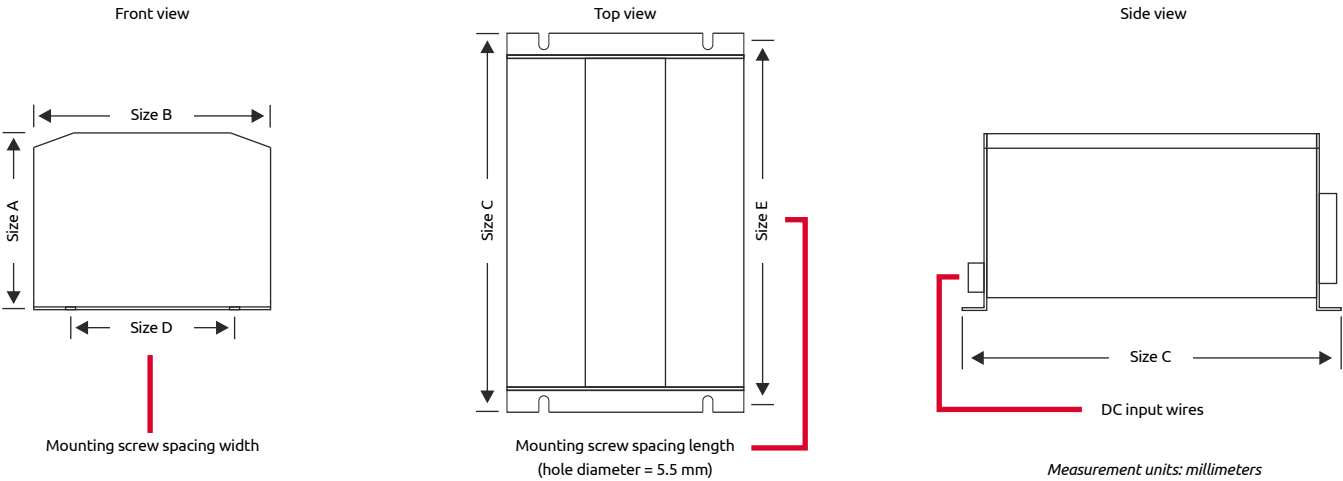
BS 1363



AS/NZS 3112



Dimensions



Size A	Size B	Size C	Size D	Size E	Models
98	130	208	90	198	PS300-12, 350-24 and 450-48
113	163	258	113	244	PS600-12, 800-24 and 800-48

Basic application diagram

