

# PSI series Pure Sinusoidal Inverter



- Load sense
- Low battery cut-off
- Great overload performance
- Do not effect other equipment like TV, radio, microwave ovens, etc...
- High efficiency
- Aluminium chassis for harsh environments
- 89/336/EEC, 92/31/EEC and 93/68/EEC

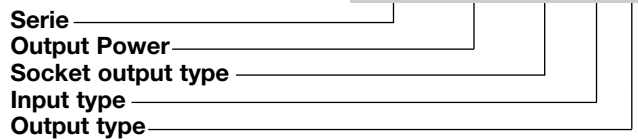
## Product Description

These pure sinusoidal wave inverter series is especially designed to fulfil the needs of applications where it is necessary to adapt several parameters of inverters to

the loads. It includes a low frequency transformer (toroidal transformer) to isolate the DC circuit (input) from the AC circuit (output).

## Ordering Key

**PSI 1500 U 12 1**



## Approvals



## Output Power

0150	150W
0300	300W
0600	600W
1000	1000W
1500	1500W
3000	3000W

## Socket Output Type

E	European
U	Universal

## Input Type

12	12VDC
24	24VDC
48	48VDC

## Output Type

1	115VAC / 60Hz
2	230VAC / 50Hz

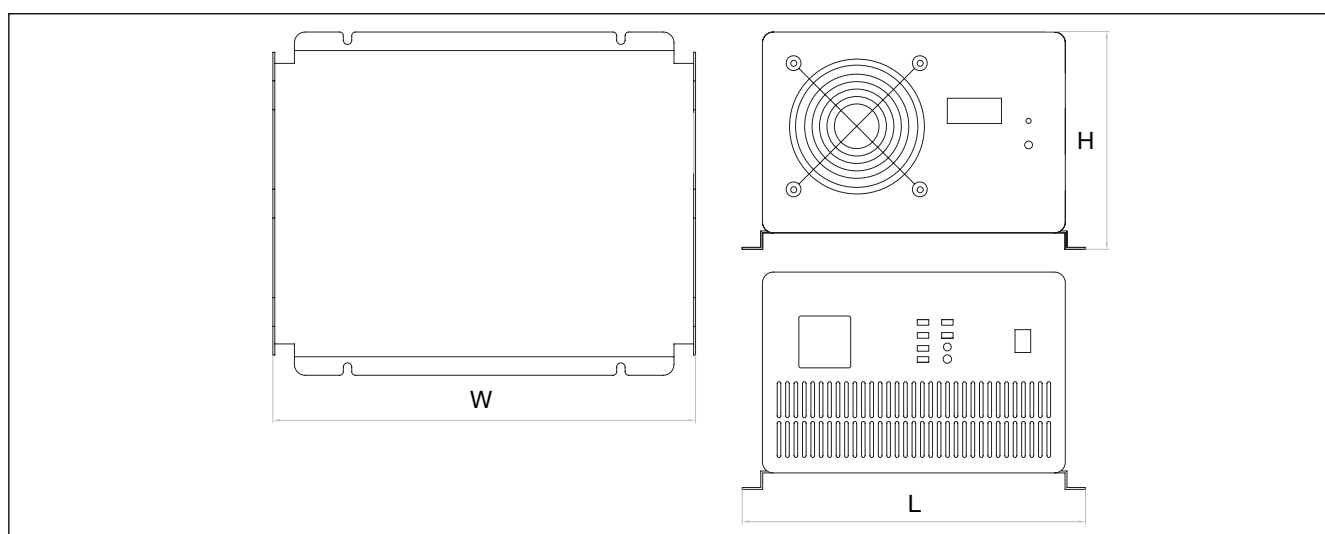
## Electrical Data

Models	PSI 0150 12 x x PSI 0150 24 x x PSI 0150 48 x x	PSI 0300 12 x x PSI 0300 24 x x PSI 0300 48 x x	PSI 0600 12 x x PSI 0600 24 x x PSI 0600 48 x x	PSI 1000 12 x x PSI 1000 24 x x PSI 1000 48 x x	PSI 1500 12 x x PSI 1500 24 x x PSI 1500 48 x x	PSI 3000 12 x x PSI 3000 24 x x PSI 3000 48 x x
Continous output power	150W	300W	600W	1000W	1500W	3000W
Output power surge	250W	450W	900W	1500W	2000W	4000W
AC output voltage	100~120V ±2% - 200~240V ±2% adjustable					
Output voltage regulation	-4%~+4%		-1.5%~+1.5% all models			
Output frequency	60Hz ±0.5% / 50Hz ±0.5%					
Output wave form	Pure sine wave <4%THD			Pure sine wave <2%THD		
Efficiency (full load)	88%	89%	88%	87%	88%	87%
No load power consumption	<5W		<4W (in power saving status)			
Input voltage range	10~16VDC / 20~32VDC / 38~64VDC					
Auto load detector	<10W in stand-by mode; >10W working mode					
Disconnection	≤10.5VDC					
Reconnection	≥12VDC					
Anti-surge protection	Disconnection if DC input voltage is 16VDC					
Protection feature	Over / under input voltage, over temperature and reverse input polarity (fuse). Over load, short circuit, shutdown, restart.					

## General Data

<b>Models</b>	PSI 0150 12 x x PSI 0150 24 x x PSI 0150 48 x x	PSI 0300 12 x x PSI 0300 24 x x PSI 0300 48 x x	PSI 0600 12 x x PSI 0600 24 x x PSI 0600 48 x x	PSI 1000 12 x x PSI 1000 24 x x PSI 1000 48 x x	PSI 1500 12 x x PSI 1500 24 x x PSI 1500 48 x x	PSI 3000 12 x x PSI 3000 24 x x PSI 3000 48 x x
<b>Power saving recovery time</b>	N/A		1 second			
<b>LED status indication</b>	RUN, TRIP, LED All-in-one.		Power ON/OFF, RUN/STAND-BY, High/Low battery shutdown, Over temperature shutdown and Over load shutdown.			
<b>Remote controller</b>	N/A		Power output ON/OFF, RUN, TRIP LED All-in-one			
<b>Operation temperature range</b>	-20°...+50°C / -4°...+122°F					
<b>Storage temperature range</b>	-30°...+70°C / -22°...+158°F					

## Dimensions



<b>Models</b>	PSI 0150 12 x x PSI 0150 24 x x PSI 0150 48 x x	PSI 0300 12 x x PSI 0300 24 x x PSI 0300 48 x x	PSI 0600 12 x x PSI 0600 24 x x PSI 0600 48 x x	PSI 1000 12 x x PSI 1000 24 x x PSI 1000 48 x x	PSI 1500 12 x x PSI 1500 24 x x PSI 1500 48 x x	PSI 3000 12 x x PSI 3000 24 x x PSI 3000 48 x x
<b>Dimensions (LxWxH) mm</b>	220x130x90	240x285x120	350x285x120	450x285x120	380x285x185	510x285x185

## Features

<b>Over voltage LED</b>	The over voltage indicator indicates that the power inverter has shut itself down because its input voltage higher than the detect voltage (12V/24V/48VDC versions.)	<b>Under voltage LED</b>	The under voltage indicator indicates that the power inverter has shut itself down because its input voltage has been lower than detect voltage (12V/24V/48VDC versions.)
<b>Over temp LED</b>	The over temp indicator indicates that the power inverter has shut down because it has become overheated. The power inverter may overheat because it has been operated at power levels above its rating, or because it has been installed in a location which does not allow it to dissipate heat properly. The power inverter will restart automatically once it has cooled off.	<b>Overload LED</b>	The overload indicator indicates that the power inverter has shut itself down because its output circuit has been short circuited or drastically overloaded. Switch the ON/OFF switch to OFF, correct the fault condition, and then switch the ON/OFF switch back to ON.

## Power Saving Adjustment

Automatic load-sensing, which allows the inverter to wait in Standby mode until an AC load is switched ON. When an AC load appears, the inverter will immediately start. This feature conserves valuable battery energy as the inverter uses only about 10% of normal power when in standby mode (standby is indicated by flashing green lamp). The amount of AC power is required to start the inverter can be adjusted.