Selection Guide

PSI SERIES(1KW-6KW)

Model	PSI1K -12	PSI1K -24	PSI1K5 -12	PSI1K5 -24	PSI2K -12	PSI2K -24	PSI3K -24	PSI3K -48	PSI4K -24	PSI4K -48	PSI5K -48	PSI6K -48
RATED POWER	1000W		1500W		2000W		3000W		4000W		5000W	6000W
Dimension DxWxH (mm)	466x277x196								621x277x186			
Net Weight (kgs)	12.60		13.80		19.10		22.30		25.00		27.00	31.00
AC INPUT												
AC Voltage	220VAC/230VAC/240VAC											
Maximum Voltage	270VAC											
Frequency	50/60 Hz±2.5Hz (Auto sensing)											
Efficiency	> 95%											
OUTPUT												
AC Voltage Regulation	220VAC or 230VAC or 240VAC ± 10% (HOT1 - HOT2) 110VAC/110VAC or 115VAC/115VAC or 120VAC/120VAC ± 10% (HOT1 - N / HOT2 - N)											
Surge Power	3000W		4500W		6000W		9000W		12KW		15KW	18KW
Frequency	50Hz/60HZ±0.3Hz Auto(settable)											
Inverter Efficiency	83%											
Transfer Time	< 10ms											
Waveform	Pure sine wave											
Overload Capacity	<=110% alarm 5mins then stop output and fault code 07; <=125% alarm 60s then stop output and fault code 07; > 125% alarm 10s then stop output and fault code 07											
BATTERY												
Battery Voltage	12VDC/24VDC						24VDC/48VDC				48VDC	
Minimum Start Voltage	11VDC/22VDC						22VDC/44VDC				44VDC	
Low Battery Voltage Trip	10VDC - 10.5VDC / 20VDC - 21VDC						20VDC - 21VDC / 40VDC - 42VDC				40VDC - 42VDC	
Low Battery Voltage Alarm	10.5VDC - 11VDC / 21VDC - 22VDC						21VDC - 22VDC / 42VDC - 44VDC				42VDC - 44VDC	
High Battery Voltage Alarm	14.8VDC - 15.5VDC / 29.6VDC - 31VDC						29.6VDC - 31VDC / 59.2VDC - 62VDC				59.2VDC - 62VDC	
Power Saver Mode	30 Watts @110VAC or 115VAC or 120VAC, 60 Watts @220VAC or 230VAC or 240VAC											
Boost Charge Voltage	14.1VDC default (13.8VDC-14.5VDC Adjustable) / 28.2VDC default (27.6VDC-29.0VDC Adjustable)						28.2VDC default (27.6VDC-29.0VDC Adjustable) / 56.4VDC default (55.2VDC-58.0VDC Adjustable)				56.4VDC default (55.2VDC-58.0 VDC Adjustable)	
Float Charge Voltage	13.5VDC default (13.5VDC-13.7VDC Adjustable) / 27.0VDC default (27.0VDC-27.4VDC Adjustable)						27.0VDC default (27.0VDC-27.4VDC Adjustable) / 54.0VDC default (54.0VDC-54.8VDC Adjustable)				54.0VDC default (54.0VDC-54.8 VDC Adjustable)	
AC Charge Current	30A-12V / 20A-24V		45A-12V / 25A-24V		60A-12V / 30A-24V		40A-12V / 20A-24V		60A-12V / 30A-24V		35A	40A
ENVIRONMENT												
Humidity	10～93%（No condensation）											
Temperature	-10℃ ~ 50℃											
Altitude	≤3000m											
Communication	USB/BTS/AGS											

Product specifications are subject to change without further notice.

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Split Phase Inverter Charger

PSI SERIES(1KW-6KW)

ISO9001

SPLIT PHASE INVERTER CHARGER

PSI SERIES(1KW-6KW)

Product Introduction

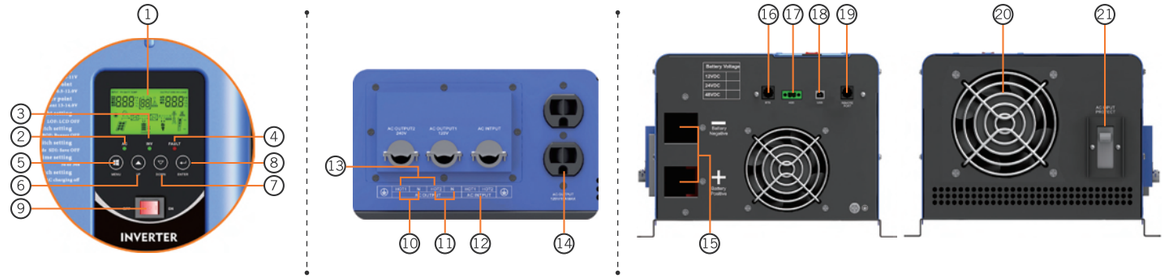
The split phase low frequency pure sine wave inverter charger is a combination of an inverter, battery charger, and AC auto-transfer switch into on complete system. It is packed with unique features and it is one of the most affordable inverter charger in the market today. This split inverter is great for your emergency battery backup for when the grid goes down with an unnoticeable transfer time of 10 milliseconds, or for use as a standalone off-grid system. Kill your power bill and save the earth with this inverter charger. This unit is your smart choice for the power at home power backup, RV, truck, vehicle and emergency appliances.

Product Features

- Rated Power 1-6KW
- Battery DC Voltage 12V, 24V, 48V
- Pure Copper UI Transformer
- Multi Protection
- Home Solar System
- Wide AC Input Range 155-280Vac
- Battery Smart Charge Design
- Wide Frequency 40HZ-80HZ
- 3 times Surge Power
- Pure Sine Wave

1. Pure sine wave inverter
2. Built-in isolation transformer
3. 3 times surge capability for difficult loads like refrigerators or A/C compressors
4. Selectable charging current
5. Designed to operate under harsh environment
6. Split phase output: 240Vac/120Vac or 220Vac/110Vac output
7. Low DC voltage supports home and office appliances
8. Auto restart while AC is recovering
9. Overload and short circuit protection
10. Smart battery charger design for optimized battery performance and extend battery lifecycle
11. Cold start function
12. Compatible to mains voltage or generator power
13. LCD and LED display to indicate the status of the inverter charger
14. Power save mode to reduce idle consume
15. Remote Control panel for indicating the system status (option)

Product Details

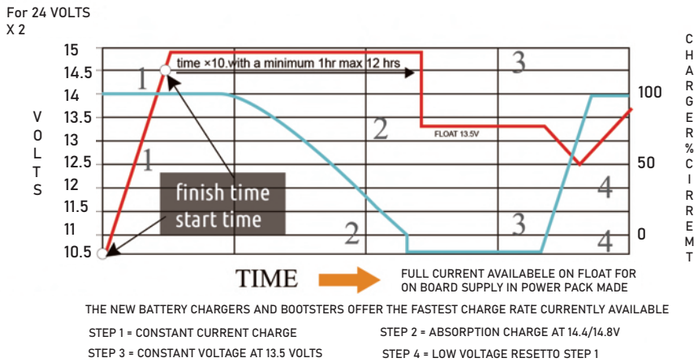


1. LCD Setting
2. AC Status LED
3. Inverter Status LED
4. Fault Warning LED
5. MENU
6. Page Up
7. Page Down
8. Enter And Confirm
9. Switch On / Off
10. AC OUTPUT1: HOT1 - N 120VAC/110 VAC/115VAC
11. AC OUTPUT2: HOT2 - N 120VAC/110 VAC/115VAC
12. AC INPUT: HOT1 - HOT2 240VAC/220 VAC/230VAC
13. AC OUTPUT: HOT1 - HOT2 240VAC/220 VAC/230VAC
14. 5.15AMAX JFCI Output 110V/115V/120V Socket, 15A MAX
15. Battery -/+
16. BTS
17. AGS
18. USB
19. Remote Panel
20. Fan
21. AC Input

SMART BATTERY CHARGERS - 3 SETPS OPTIMIZING BATTERY CHARGE

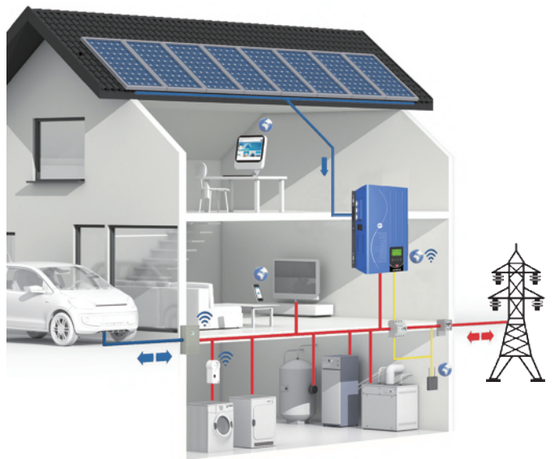
Boost CC Stage: If A/C input is applied, the charger will run at full current in CC mode until the charger reaches the boost voltage.
Boost CV Stage: the charger will keep the boost voltage in Boost CV mode until the charge current less 6A continue 1minute or keep the boost voltage time more than 2hours . Then drop the voltage down to the float voltage.
Float Stage: In float mode, the voltage will stay at the float voltage. If the A/C is reconnected , the charger will reset the cycle above.

ADJUSTABLE TIME DEPENDING ON BATTERY BANK SIZE



THE NEW BATTERY CHARGERS AND BOOTSTERS OFFER THE FASTEST CHARGE RATE CURRENTLY AVAILABLE

STEP 1 = CONSTANT CURRENT CHARGE
STEP 2 = ABSORPTION CHARGE AT 14.4/14.8V
STEP 3 = CONSTANT VOLTAGE AT 13.5 VOLTS
STEP 4 = LOW VOLTAGE RESETTO STEP 1



SOLAR INVERTER SYSTEM CONNECTION:

Power Inverter + Battery + Solar Panels + Grid + Applicaiton Loads

INVERTER SYSTEM CONNECTION

PSI Series, split phase inverter, it can support different loads With pure copper transformer, like laptop,TV, Air-conditioner, fridge etc... Normally this inverter work with battery as back up system to meet different power demands in daily life; it can also connect extra MPPT/PWM solar charge controller, then work as an solar inverter system, use sunshine energy to save electricity bills.