

PSi12000W#48VPVM

Features:

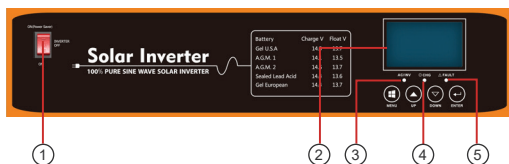
- » Smart LCD setting (Working modes, Charge Current, Charge voltage, etc.)
- » Built-in MPPT solar charge controller 100A
- » MPPT efficiency max 98%
- » Powerful AC charge rate up to 140Amp
- » DC start & Automatic Self-Diagnostic Function
- » USB Monitoring Function
- » Supporting AGS, BTS port



Introduction

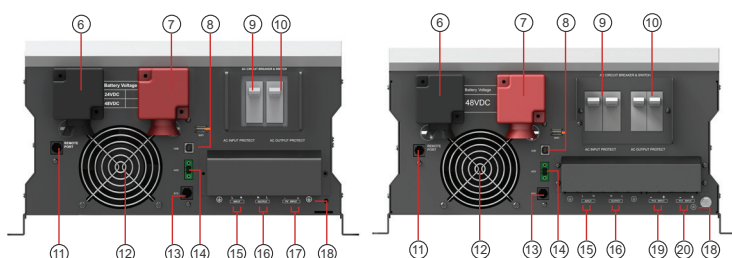
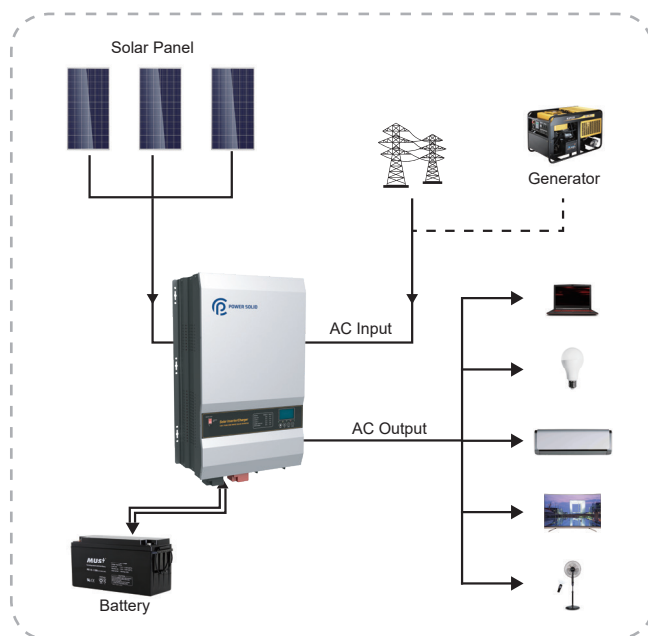
PSi8000W#48VPVM is a multi-function inverter, combining functions of inverter and MPPT solar charge controller, solar charger and battery charger to offer uninterruptible power support with portable size. The comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and selectable input voltage based on different applications.

Back Panel Printing Description



- | | |
|--------------------------------|--------------------------|
| 1. Switch ON/OFF | 11. Remote control port |
| 2. LCD display | 12. Fan |
| 3. AC/Inverter indicator | 13. BTS |
| 4. Charging indicator | 14. AGS |
| 5. Fault indicator | 15. AC input |
| 6. BAT- | 16. AC output |
| 7. BAT+ | 17. PV input |
| 8. WIFI/USB communication port | 18. Ground |
| 9. AC input/Bypass breaker | 19. PV2 input (optional) |
| 10. AC output breaker | 20. PV1 input |

Solar System Connection



Technical Specification

Model	PSI12000W#48VPVM
Nominal Battery System Voltage	48VDC
Inverter Output	
Rated power	12.0KW
Surge rating(20ms)	36KW
Capable of starting electric motor	6HP
Waveform	Pure sine wave \ same as input (bypass mode)
Nominal output voltage RMS	220V \ 230V \ 240VAC ($\pm 10\%$ RMS)
Output frequency	50Hz \ 60Hz ± 0.3 Hz
Inverter Efficiency	>88%
Line Mode Efficiency	>95%
Power factor	1.0
Typical transfer time	20ms(max)
AC INPUT	
Voltage	230VAC
Selectable voltage range	90-280 VAC (APL)
Frequency range	50Hz \ 60Hz
Battery	
Low Battery Voltage Cutoff	(40-48VDC)
Low battery voltage recover	(42-50VDC)
High Battery Voltage Cutoff	(60VDC)
High battery voltage recover	(57VDC)
Idle consumption-search mode	< 60W when power saver on
AC Charger	
Output voltage	Depends on battery type
Charger AC input breaker rating	80A
Overcharge protection S.D.	(62.8VDC)
Maximum charge current	140A
BTS	
Continuous output power	Yes, Variances in charging voltage & S.D. voltage base on the battery temperature
BYPASS & PROTECTION	
Input voltage waveform	Sine wave (grid or generator)
Nominal input frequency	50Hz or 60Hz
Overload protection (SMPS Load)	Circuit breaker
Output short circuit protection	Circuit breaker
Bypass breaker rating	63A
Max bypass current	80Amp
Solar Charge	
Maximum PV charge current	100A
DC voltage	48V
Maximum PV array power	5000W
MPPT range @ operating voltage (VDC)	64~147VDC
Maximum PV array open circuit voltage	147VDC
Maximum Efficiency	>98%
Standby power consumption	<2W
MECHANICAL SPECIFICATIONS	
Mounting	Wall mount
Dimensions (W*H*D)	670*410*215mm
Net weight (solar CHG) (kg)	75.75+2.5
Shipping dimensions (W*H*D)	884*618*443mm
Shipping weight (Solar CHG) (kg)	92+2.5
Other	
Operation temperature range	0°C to 40°C
Storage temperature	-15°C to 60°C
Audible noise	60dB MAX
Display	LED+LCD