

Low Frequency Solar Inverter

PV3500 PRO Series (4KW-12KW)



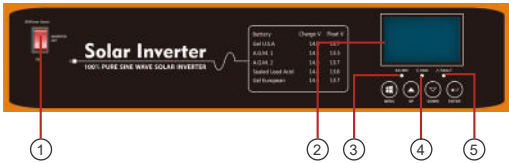
Features

- Smart LCD setting(Working modes, Charge Current, Charge voltage, etc.)
- Built-in MPPT solar charge controller 80A/100A/200A
- MPPT efficiency max 98%
- Powerful charge rate up to 140Amp
- DC start &Automatic Self-Diagnostic Function
- WIFI / USB monitoring function (wi-fi optional)
- Supporting AGS, BTS port
- Compatible to generator

Introduction

PV3500 PRO series is a multi-function inverter ,combining functions of inverter and MPPT solar charger controller, solar charger and battery charger to offer uninterruptible power support. 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

2. LCD display

3. AC/Inverter indicator

4. Charging indicator

5. Fault indicator

6. BAT-

7. BAT+

8. WIFI/USB communication port

9. AC input/Bypass breaker

10.AC output breaker
- 11.Remote control port

12.Fan

13.BTS

14.AGS

15.AC input

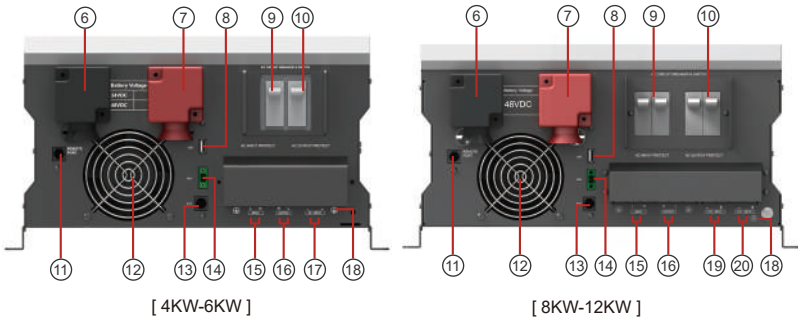
16.AC outputr

17.PV input

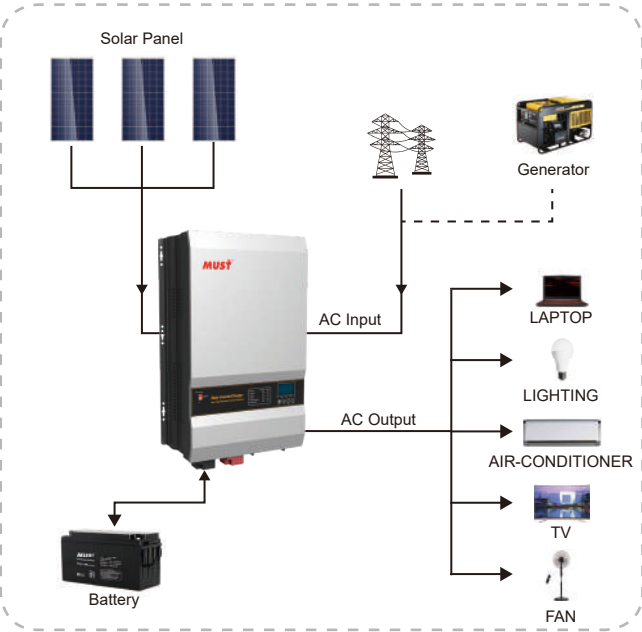
18.Ground

19.PV2 input (optional)

20.PV1 input



Solar system connection



Specification

MODEL		PV35 PRO-4K		PV35 PRO-5K		PV35 PRO-6K	PV35 PRO-8K	PV35 PRO-10K	PV35 PRO-12K	
Nominal Battery System Voltage		24V	48V	24V	48V	48V	48VDC	48VDC	48VDC	
INVERTER OUTPUT	Rated power	4KW		5KW		6KW	8.0KW	10.0KW	12.0KW	
	Surge rating	12000VA		15000VA		18000VA	24000VA	30000VA	36000VA	
	Capable of starting electric motor	2HP		2HP		3HP	4HP	5HP	6HP	
	Waveform	Pure sine wave / same as input (bypass mode)								
	Nominal output voltage RMS	220V / 230V / 240VAC (±10%RMS)								
	Output frequency	50Hz / 60Hz ± 0.3Hz								
	Inverter efficiency(peak)	>85%						>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	20-24VDC for 24VDC mode (40-48VDC for 48VDC mode)								
	Low battery voltage recover	21-25VDC for 24VDC mode (42-50VDC for 48VDC mode)								
	High battery voltage cutoff	30VDC for 24VDC mode (60VDC for 48VDC mode)								
	High battery voltage recover	28.5VDC for 24VDC mode (57VDC for 48VDC mode)								
	Idle consumption-search mode	<30W when power saver on						<80W when power saver on		
AC CHARGER	Output voltage	Depends on battery type								
	Charger AC input breaker rating	40A		40A		50A	80A	80A	80A	
	Overcharge protection S.D.	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)								
	Maximum charge current	80A	60A	100A	70A	80A	100A	120A	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	40A						63A	63A	63A
	Max bypass current	40Amp						80Amp		
SOLAR CHARGER	Maximum PV charge current	80A						100A(200A optional)		
	DC voltage	24V / 48V Auto work						48V		
	Maximim PV array power	2000W	4000W	2000W	4000W	4000W	5000W(10000W for 200A optional)			
	MPPT range @ operating voltage(VDC)	32-145VDC for 24V mode,64-145V for 48V mode						64~145VDC		
	Maximum PV array open circuit voltage	145VDC								
	Maximum efficiency	>98%								
	Standby power consumption	<2W								
	MECHANICAL SPECIFICATIONS	Mounting	Wall mount							
Dimensions (W*H*D)		620*385*215mm						670*410*215mm		
Net weight (solar CHG) (kg)		36		41		41	69+2.5	75.75+2.5	75.75+2.5	
Shipping dimensions (W*H*D)		755*515*455mm						884*618*443mm		
Shipping weight (Solar CHG) (kg)		56		61		64	82.5+2.5	89+2.5	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								
	Loading (20GP/40GP/40HQ)	140pcs / 280pcs / 320pcs								

The technical specifications of this document are subject to change without any notice