



PV3500 Series Low Frequency Off Grid Solar Inverter

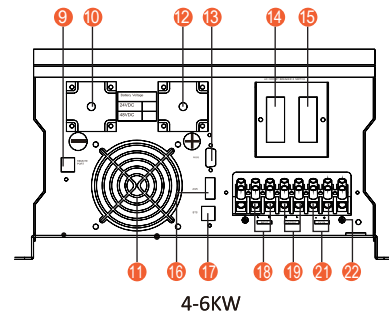
Feature:

- Rated power 4kw to 12kw
- Pure sine wave output
- Smart LCD setting(Working modes, Charge Current, Charge voltage, etc.)
- Built-in MPPT solar charge controller 60A/120A
- MPPT efficiency max 98%
- Powerful charge rate up to 100Amp (120A optional)
- Built-in pure copper UI transformer
- DC start & Automatic Self-Diagnostic Function
- USB/RS485 monitoring function with free CD
- Supporting AGS, BTS port
- Compatible to generator

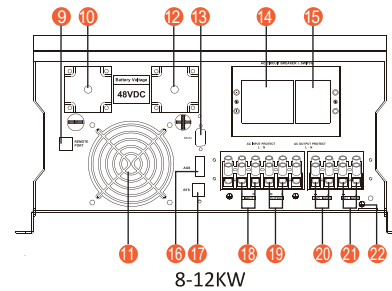
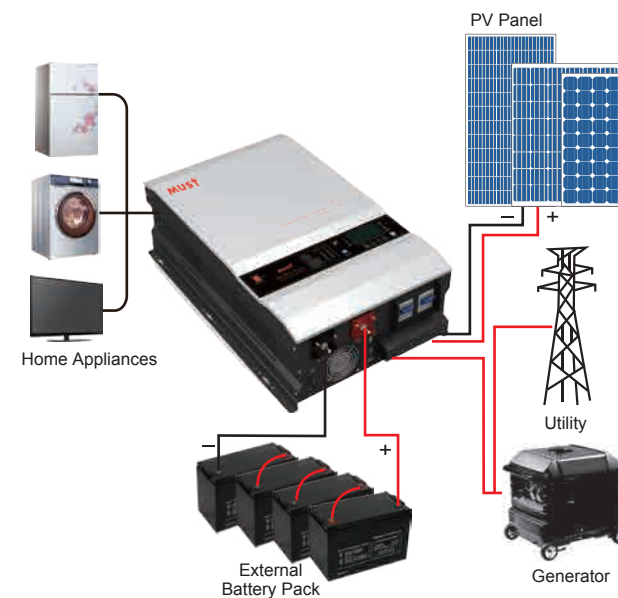
Introduction:

This is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterrupted power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

LCD Display Information



Solar System Connection



1. Power saver on/off switch
2. LCD display
3. Inverter indicator
4. Charging indicator
5. Grid indicator

6. Fault indicator
7. Function
8. PV indicator
9. Remote control port
10. BAT"-
11. FAN
12. BAT"+
13. USB/RS485/CAN communication port
14. AC input/Bypass breaker
15. AC output breaker
16. AGS
17. BTS
18. AC input
19. AC output
20. PV2 input (Optional)
21. PV1 input
22. Ground

Back Panel



Specification

MODEL	PV35-4K	PV35-5K	PV35-6K	PV35-8K	PV35-10K	PV35-12K		
Nominal Battery System Voltage	24V 48V	48V	48V	48V	48VDC	48VDC		
INVERTER OUTPUT	Rated Power	4KW	5KW	6KW	8.0KW	10.0KW	12.0KW	
	Surge Rating (20ms)	12KW	15.0KW	18.0KW	24.0KW	30.0KW	36.0KW	
	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 +/-0.3 Hz						
	Inverter Efficiency(Peak)	>85%			>88%			
	Line Mode Efficiency	>95%						
	Power Factor	1.0						
	Typical Transfer Time	10ms(max)						
AC INPUT	Voltage	230VAC						
	Selectable Voltage Range	154~272VAC(For Personal Computers)						
	Frequency Range	50Hz/60Hz (Auto sensing)						
BATTERY	Minimum Start Voltage	20.0VDC/21.0VDC for 24VDC mode (40.0VDC/42.0VDC for 48VDC mode)						
	Low Battery Alarm	21.0VDC+/-0.3V for 24VDC mode (42.0VDC+/-0.6V for 48VDC mode)						
	Low Battery Cutoff	20.0VDC+/-0.3V for 24VDC mode (40.0VDC+/-0.6V for 48VDC mode)						
	High Voltage Alarm	32.0VDC+/-0.3V for 24VDC mode (64.0VDC+/-0.6V for 48VDC mode)						
	High Battery Voltage Recover	31.0VDC+/-0.3V for 24VDC mode (62.0VDC+/-0.6V for 48VDC mode)						
	Idle Consumption-Search Mode	<25W when power saver on			<25W when power saver on			
	Output Voltage	Depends on battery type						
AC CHARGER	Charger AC Input Breaker Rating	30A	30A	30A	40A	50A	63A	
	Overcharge Protection S.D.	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)						
	Maximum Charge Current	65A	40A	35A	40A	70A	80A	100A
	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			80A		80A	
SOLAR CHARGER	Max Bypass Current	40Amp						
	Maximum PV Charge Current	60A						
	DC Voltage	24V/48V Auto work						
	Maximum PV Array Power	1600W	3200W	3200W	3200W	3200W(6400W for 120A Optional)		
	MPPT Range @ Operating Voltage(VDC)	32-145VDC for 24V mode,64-145V for 48V mode						
	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	44	69+2.5	75.75+2.5	75.75+2.5	
	Shipping Dimensions(W*H*D)	755*515*455mm						
	Shipping Weight (Solar CHG) kg	56	61	64	89+2.5	95.5+2.5	95.5+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						

* Product specifications are subject to change without further notice.

Approximate Back-up Time Table

Power Rate(w)	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
4000	0.2136	0.4806	1.602	3.50304
5000	0.12816	0.34176	1.19616	2.73408
6000		0.2848	0.8544	2.136
8000		0.1922	0.6408	1.4
10000		0.1367	0.4184	1.0936
12000		0.11392	0.3417	0.8544