



PV3500 Series

Low Frequency Off Grid Solar Inverter

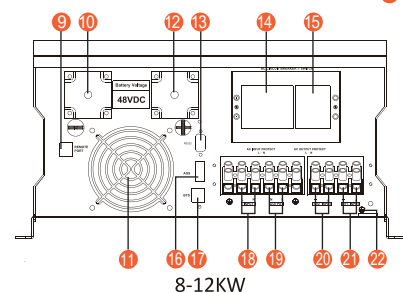
Feature:

- 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:

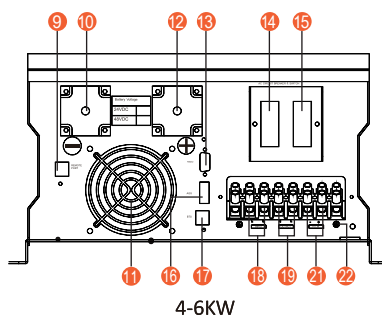
This is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterrupted power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar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

LCD Display Information

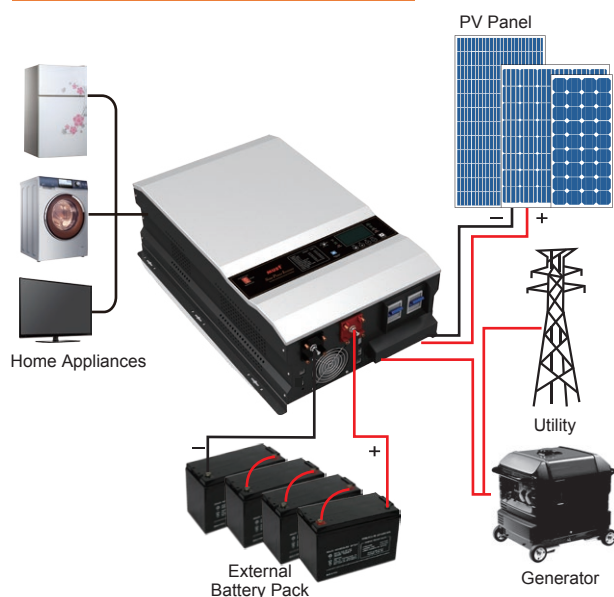


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|--------------------------------------|--------------------------|
| 6. Fault indicator | 15. AC output breaker |
| 7. Function | 16. AGS |
| 8. PV indicator | 17. BTS |
| 9. Remote control port | 18. AC input |
| 10. BAT "-" | 19. AC output |
| 11.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

Back Panel



Solar System Connection



Specification

MODEL		PV35-4K		PV35-5K	PV35-6K	PV35-8K	PV35-10K	PV35-12K
Nominal Battery System Voltage		24V	48V	48V	48V	48VDC	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		
AC CHARGER	Output Voltage	Depends on battery type						
	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	80A
	Max Bypass Current	40Amp				80Amp		
SOLAR CHARGER	Maximum PV Charge Current	60A				60A(120A Optional)		
	DC Voltage	24V/48V Auto work				48V		
	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				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	44	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	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