

LOW FREQUENCY SOLAR INVERTER PV3500 SERIES

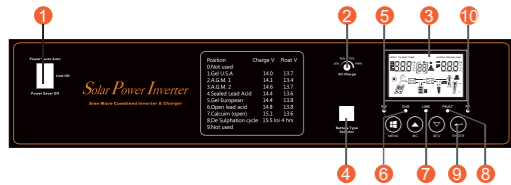


- Pure sine wave output .
- Power range 4KW-12KW.
- 24V/48VDC input voltage.
- Powerful Charge Rate Up to 100Amp.
- Inbuilt pure copper transformer.
- Pure sine wave output .
- LED+LCD display .
- MPPT Efficiency max 98% .
- RS485 with free CD

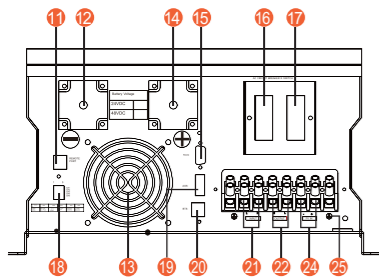
INTRODUCTION

This is a hybrid inverter with our new good design combined with A/C charger and solar MPPT charge controller. Auto-transfer switch into one complete system. It is packed with unique features and one of the most advanced hybrid inverters in the market today.

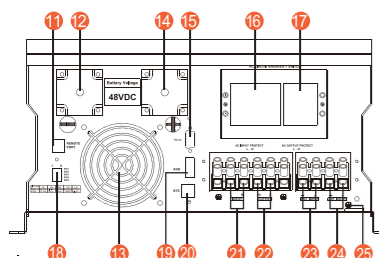
LCD DISPLAY INFORMATION



1. Power saver on/off switch
2. AC Charger current Setting
3. LCD display
4. Battery Voltage Setting
5. Inverter indicator
6. Charging indicator
7. Grid indicator
8. Fault indicator
9. Function
10. PV indicator



4-6KW



8-12KW

11. Remote port
12. BAT“-”
13. FAN
14. BAT“+”
15. RS485/CAN communication port
16. AC input/Bypass breaker
17. AC output breaker
18. Function Switch(SW1-SW5)
19. AGS
20. BTS
21. AC input
22. AC output
23. PV2 input(Optional)
24. PV1 input
25. Ground

SPECIFICATION

MODEL	PV35-4K	PV35-5K	PV35-6K	PV35-8K	PV35-10K	PV35-12K
Nominal Battery System Voltage	24V	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	0.8					
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	40A	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
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		
Max Bypass Current	40Amp			80Amp		
SOLAR CHARGER						
Maximum PV Charge Current	60A			60A(120A Optional)		
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,64-147V for 48V mode					
Maximum PV Array Open Circuit Voltage	147VDC					
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