

PV3500 Series Low Frequency Solar Inverter

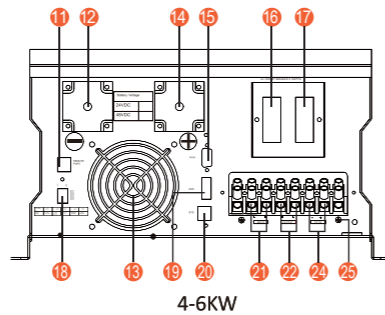
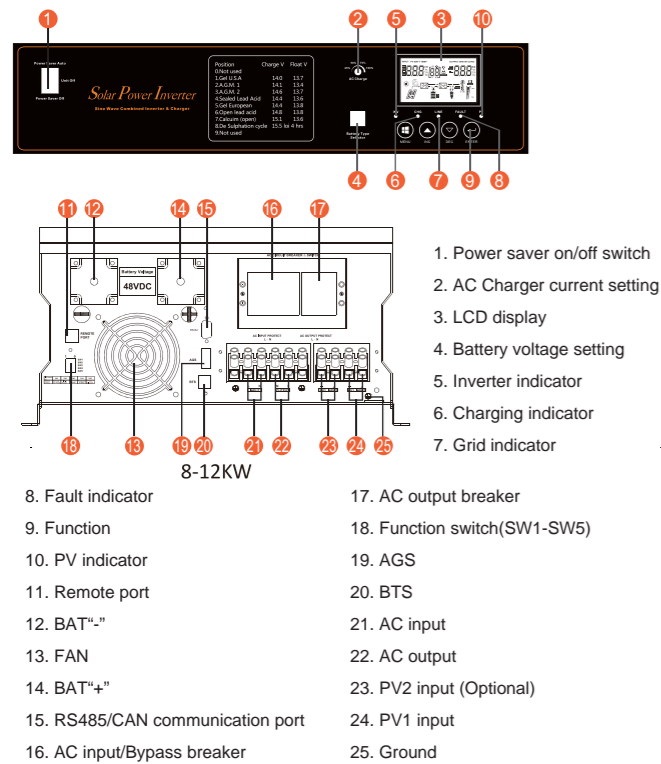
Feature:

- 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 transformer
- Built-in pure copper UI transformer
- DC start & Automatic Self-Diagnostic Function
- RS485 monitoring function with free CD
- Supporting AGS, BTS port
- WIFI/GPRS remote monitoring (optional)
- Compatible to generator

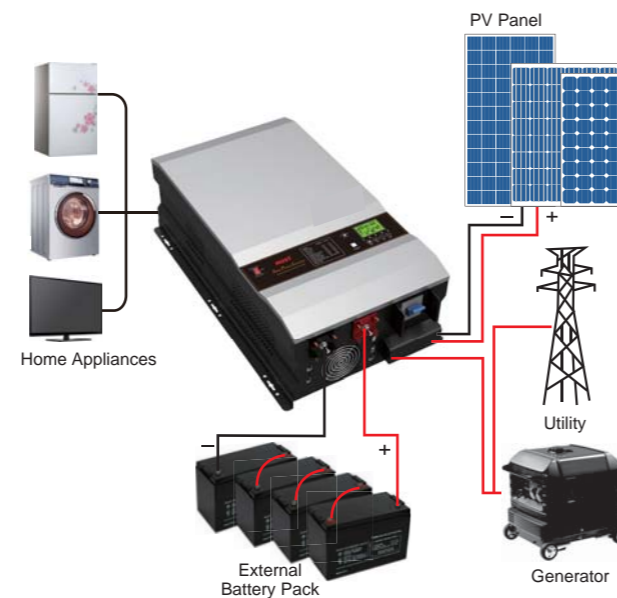
Introduction:

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



Back Panel



Specification

MODEL		PV35-4K		PV35-5K		PV35-6K		PV35-8K		PV35-10K		PV35-12K	
Nominal Battery System Voltage		24V	48V	24V	48V	24V	48V	48VDC	48VDC	48VDC	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	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		30A		40A		50A		63A	
Overcharge Protection S.D.		31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)											
Maximum Charge Current		65A	40A	65A	35A	65A	40A	70A	80A	80A	100A	100A	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											
SOLAR CHARGER	Bypass Breaker Rating	40A						80A					
	Max Bypass Current	40Amp						80Amp					
	Maximum PV Charge Current	60A											
	DC Voltage	24V/48V Auto work											
	Maximum PV Array Power	1600W	3200W	1600W	3200W	1600W	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	88+2.5	95.5+2.5	95.5+2.5	95.5+2.5	95.5+2.5	95.5+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	110+2.5	116.5+2.5	116.5+2.5	116.5+2.5	116.5+2.5	116.5+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