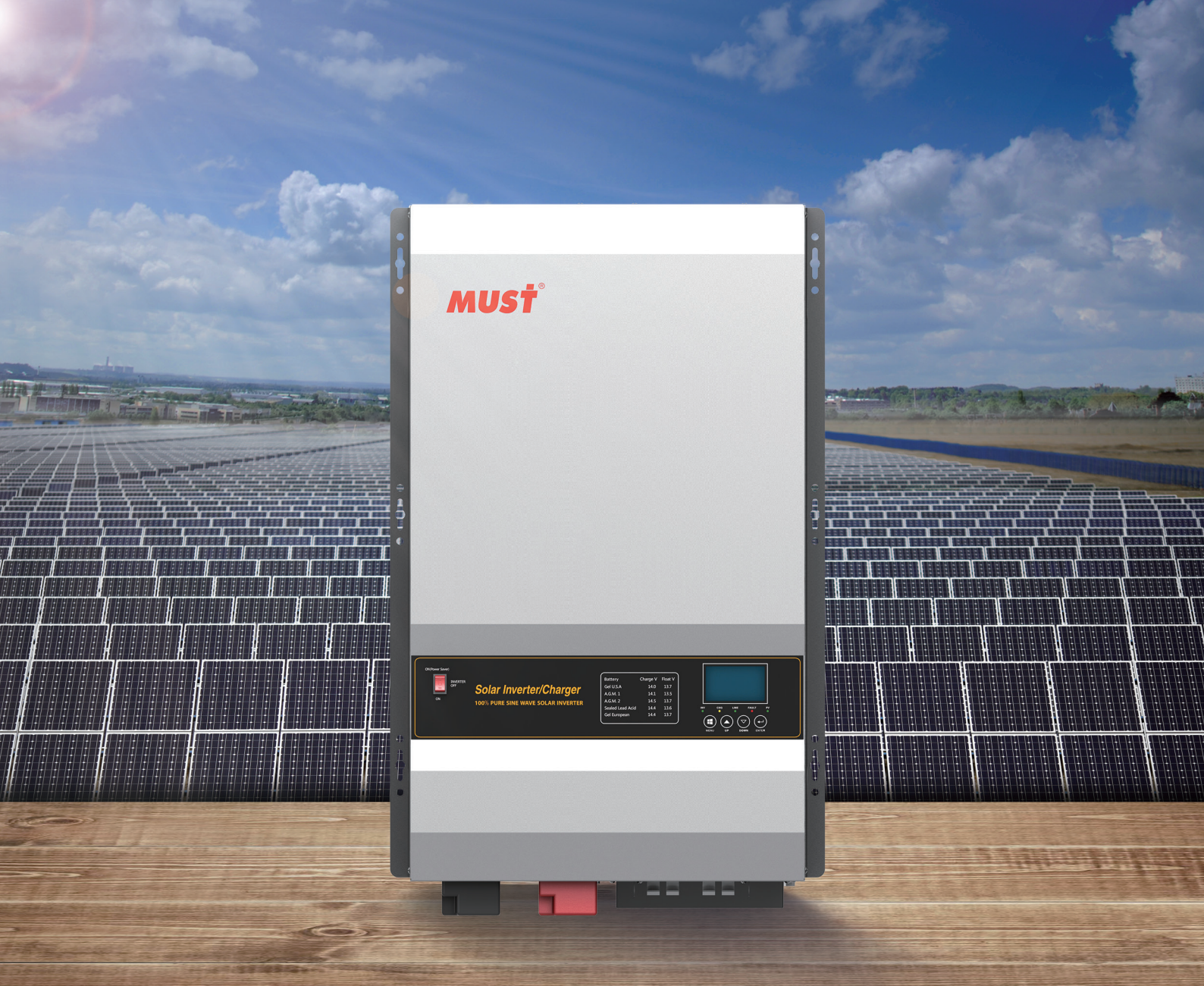




PV3500 Series (4KW-12KW)

Low Frequency Solar Inverter

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Low Frequency Solar Inverter



INTRODUCTION

PV3500 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 with portable size. 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.

FEATURES

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



Rated power
4KW-12KW



Battery Voltage
24V,48V



Wide AC input range
154-272Vac



Battery smart
charge design



3 times surge power
based on capacity
4KW-12KW



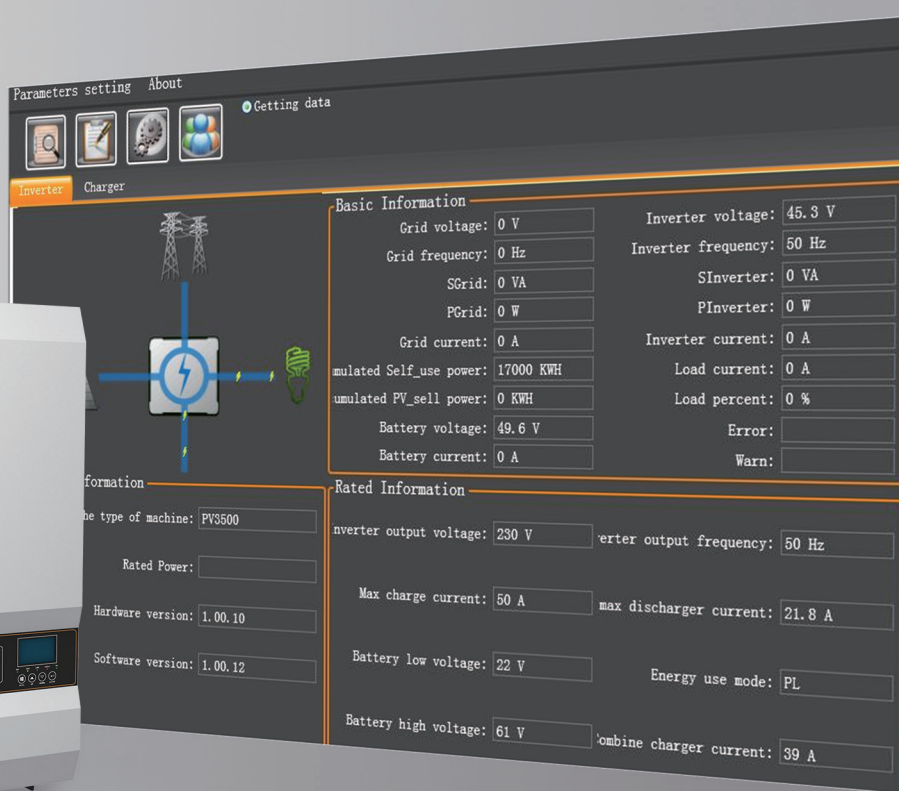
Pure copper
UI transformer



MPPT solar charge controller
60A / 120A



Multi protection



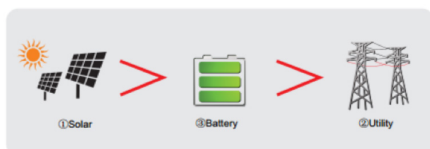
MONITORING SYSTEM

With USB can connect with computer monitoring the working stage and the data of PV, AC and battery. LCD setting is also available in computer.

DIFFERENT WORKING MODES (the sequence that the load get power from)

You can choose different working mode based on your need.

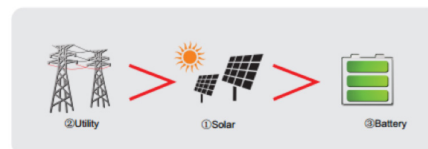
• SBU



• SOL



• UTI



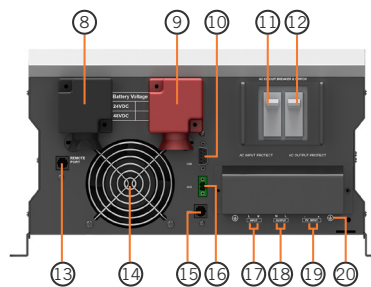
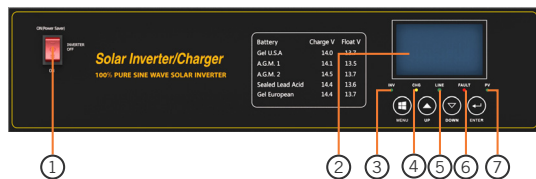
INVERTER SYSTEM CONNECTION

PV3500 inverter system, it can work with battery as back up power for normal home power demands, which take use of sunshine freely and save lots electricity bill for you.

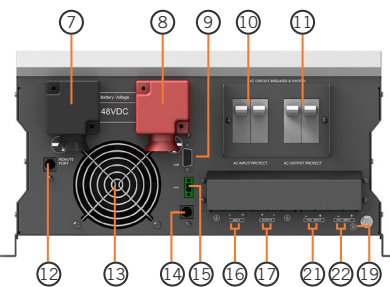
Solar Inverter System Connection:

Power Inverter + Battery + Solar Panels + Grid + Application Loads

PV3500 Series (4KW-12KW) Low Frequency Solar Inverter



4KW-6KW



8KW-12KW

- | | | |
|-----------------------|----------------------------------|--------------------------|
| 1. Switch ON/OFF | 8. BAT- | 15. BTS |
| 2. LCD display | 9. BAT+ | 16. AGS |
| 3. Inverter indicator | 10. RS485/USB communication port | 17. AC input |
| 4. Charging indicator | 11. AC input/Bypass breaker | 18. AC outputr |
| 5. Grid indicator | 12. AC output breaker | 19. PV input |
| 6. Fault indicator | 13. Remote control port | 20. Ground |
| 7. PV indicator | 14. Fan | 21. PV2 input (optional) |
| | | 22. PV1 input |

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		15KW	18KW	24KW	30KW	36KW
	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	0.8						
AC INPUT	Typical transfer time	10ma(max)						
	Voltage	230VAC						
	Selectable voltage range	154~272 VAC (For personal computrts)						
BATTERY	Frequency range	50Hz / 60Hz (auto sensing)						
	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	40A		40A	50A	80A	80A	80A
	Overcharge protection S.D.	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)						
	Maximum charge current	65A	40A	50A	60A	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				63A	63A	63A
	Max bypass current	40Amp				80Amp		
SOLAR CHARGER	Maximum PV charge current	60A				60A(120A optional)		
	DC voltage	24V/48V Auto work				48V		
	Maximim 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				64~147VDC		
	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	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	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						