



PRO SERIES (1KW-6KW)

Low Frequency Power Inverter/Charger

Power
Electronics
Solutions





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INTRODUCTION

PRO series is very economical pure sine wave inverter, AC charger inbuilt, from 35A to 70A; Solar/AC priority is configurable, when setting solar priority, solar will charge batteries as first priority, and AC can also charge batteries when solar charger current too lower, in this way system charge is optimized best. With pure copper transformer, it enables inverter to operate with all kinds of home appliances.

FEATURES

- LCD display ,easy to read how inverter operates on LCD screen
- Compatible to generator
- 5 -levels DIP switch ,offering customized performance
- 9 - levels battery selector ,Enable to charge Gel , lead-acid battery
- DC(Solar)/AC priority optional
- 4 levels charge current adjustable
- With RS232 communication port
- With BTS & AGS , optimazing battery performance & start generator automatically
- Power saver Switch , Enable to minimize standby consumption



Rated power
1-6KW



Battery DC voltage
12V, 24V, 48V



Wide AC input range
155-280Vac / 96-132Vac



Wide frequency
40HZ-80HZ



Battery smart
charge design



Pure copper
UI transformer



3 times surge power
based on
capacity 1KW-6KW



Multi protection



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REMOTE CONTROL

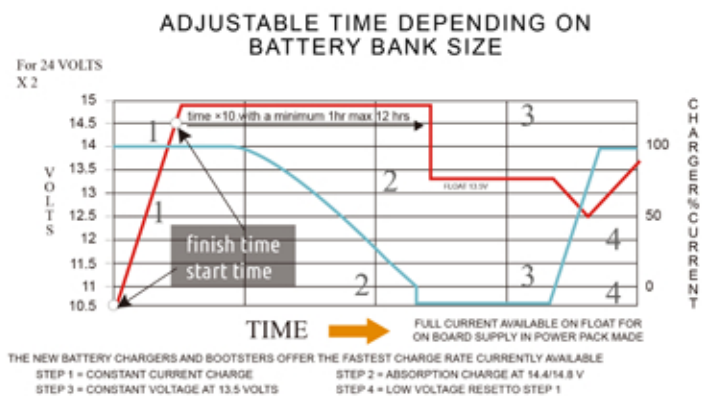
Control with a wired remote control panel

The remote control is particularly suitable when the power-source manager is installed behind a casing or in a place that prevents you from accessing the device. The remote control allows you to switch the power saving mode on/off easily.

* Please note that remote control panel is optional, not included in inverter package.

SMART BATTERY CHARGERS

Smart battery charger design for optimized battery performance.

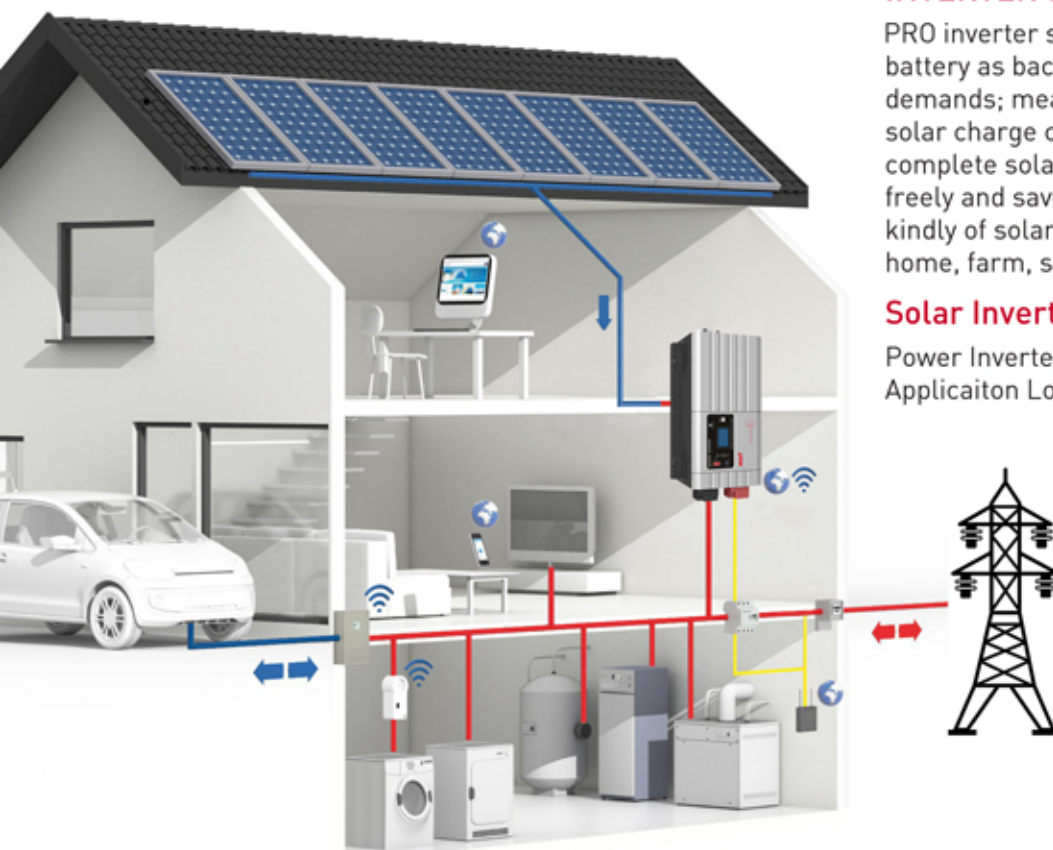


INVERTER SYSTEM CONNECTION

PRO inverter system, it can work with battery as back up power for normal home power demands; meanwhile, you can also connect extra solar charge controllers and solar panels, as a complete solar system, which take use of sunshine freely and save lots electricity bill for you. This kind of solar inverter systems are widely used in home, farm, school, shops etc.

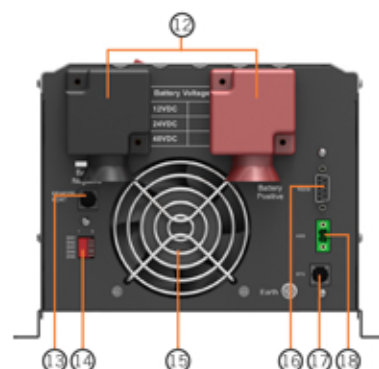
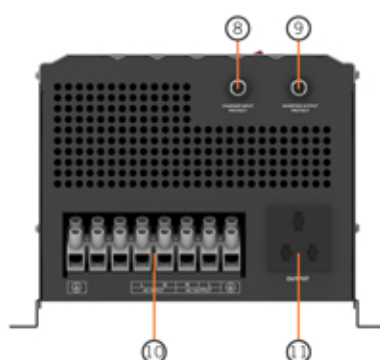
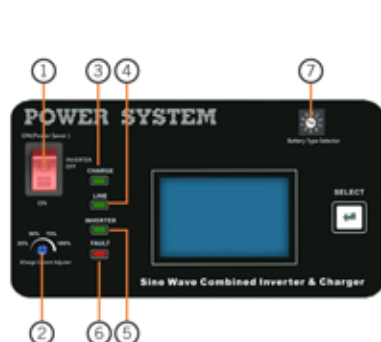
Solar Inverter System Connection:

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



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|------------------------------|-------------------------------|------------------------------|
| 1. Switch(Reference form) | 7. Battery type selector | 13. Remote control |
| 2. Charge current adjustable | 8. Charger Input Protection | 14. DIP Switch (SW1-SW5) |
| 3. AC Charge Indicator | 9. Inverter Output Protection | 15. Fan |
| 4. AC power Indicator | 10. AC I/O Connection | 16. RS232 communication port |
| 5. Inverter Indicator | 11. AC Output 10A MAX | 17. BTS |
| 6. Check inverter | 12. Battery input | 18. AGS |

MODEL		1KW PRO		1.5KW PRO		2KW PRO		3KW PRO			4KW PRO		5KW PRO		6KW PRO												
Nominal Battery System Voltage		12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC	24VDC	48VDC	24VDC	48VDC	24VDC	48VDC											
INVERTER OUTPUT	Rated Power	1.0KW		1.5KW		2KW		3KW			4KW		5KW		6KW												
	Surge Rating(20ms)	3.0KW		4.5KW		6.0KW		9.0KW			12KW		15KVA		18KW												
	Capable Of Starting Electric Motor	1HP		1HP		1HP		2HP					3HP														
	Waveform	Pure sine wave / same as input (bypass mode)																									
	Nominal Output Voltage RMS	100V /110V / 12VAC 220V / 230V / 240VAC (±10% RMS)											220V / 230V / 240VAC (±10% RMS)														
	Output Frequency	50Hz / 60Hz ±0.3Hz																									
	Inverter Efficiency (Peak)	>88%																									
	Line Mode Efficiency	>95%																									
	Power Factor	1.0																									
AC INPUT	Typical Transfer Time	10ms(max)																									
	Voltage	230VAC																									
	Selectable Voltage Range	96~132VAC 155~280VAC(For personal computers)																									
BATTERY	Frequency Range	50Hz / 60Hz(Auto sensing) 40~80Hz																									
	Minimum Start Voltage	10.0VDC / 10.5VDC for 12VDC model(*2 for 24VDC, *4 for 48VDC)																									
	Low Battery Alarm	10.5VDC ±0.3V for 12VDC model(*2 for 24VDC, *4 for 48VDC)																									
	Low Battery Cut Off	10.0VDC ±0.3V for 12VDC model(*2 for 24VDC, *4 for 48VDC)																									
	High Voltage Alarm	16.0VDC ±0.3V for 12VDC model(*2 for 24VDC, *4 for 48VDC)																									
	High Battery Voltage Recover	15.5VDC ±0.3V for 12VDC mode																									
CHARGER	Idle Consumption-Search Mode	<25W when power saver on																									
	Output Voltage	Depends on battery type																									
	Charge AC Input Breaker Rating	10A		30A		30A		30A			40A																
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)																									
BYPASS & PROTECTION	Maximum Charge Current	35A	20A	45A	25A	65A	35A	75A	45A	30A	65A	35A	70A	40A	75A	50A											
	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	10A		30A		30A		30A			30A		40A														
MECHANICAL SPECIFICATIONS	Max Bypass Current	30Amp																									
	Mounting	Wall Mount																									
	Dimensions (W*H*D)	426*206*178mm										601*206*178mm															
	Net Weight (Solar CHG)(kg)	16.5		17		21.1		20		26		24.5		24.8		38.2		35.8		45.2		45		45.2		45	
	Shipping Dimensions (W*H*D)	5570*335*300mm										750*335*300mm															
OTHER	Shipping Weight (Solar CHG)(kg)	19.3		20		24.1		22.8		29.1		27.5		27.5		42.3		40		49.5		49.3		49.5		49.3	
	Operation Temperature Range	0°C to 40°C																									
	Storage Temperature	-15°C to 60°C																									
	Audible Noise	60dB MAX																									
	Display	LED+LCD																									
	Standard Warranty	1 year, 2 or 3 years optional (IP20)																									