



# PRO SERIES (1KW-6KW)

Low Frequency Power Inverter/Charger





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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 , optimizing 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.

### ADJUSTABLE TIME DEPENDING ON BATTERY BANK SIZE



THE NEW BATTERY CHARGERS AND BOOSTERS OFFER THE FASTEST CHARGE RATE CURRENTLY AVAILABLE

STEP 1 = CONSTANT CURRENT CHARGE      STEP 2 = ABSORPTION CHARGE AT 14.4/14.8 V

STEP 3 = CONSTANT VOLTAGE AT 13.5 VOLTS      STEP 4 = LOW VOLTAGE RESET TO STEP 1



### 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 kindly of solar inverter systems are widely used in home, farm, school, shops etc.

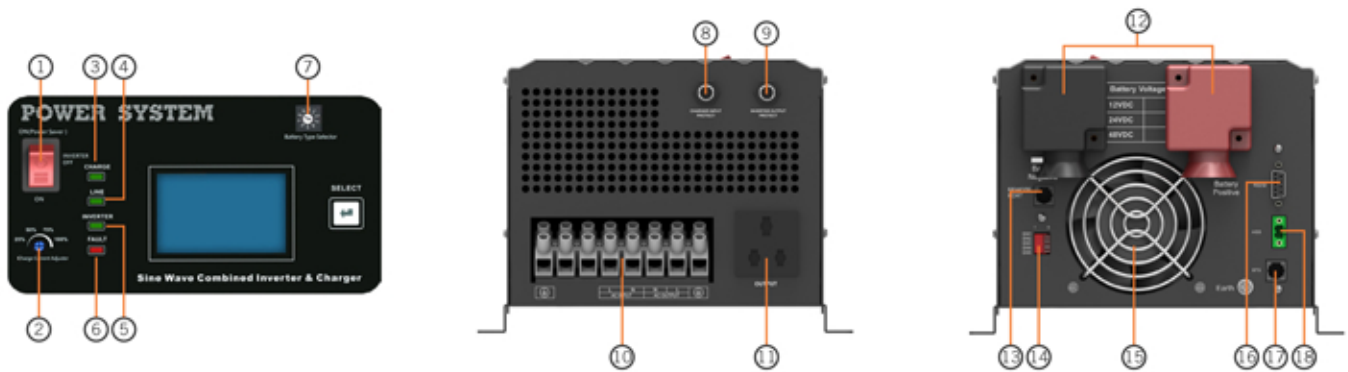
### Solar Inverter System Connection:

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		2HP		3HP		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															
Typical Transfer Time	10ms(max)															
AC INPUT	Voltage	230VAC														
	Selectable Voltage Range	96-132VAC 155-280VAC(For personal computers)														
	Frequency Range	50Hz / 60Hz(Auto sensing) 40-80Hz														
BATTERY	Minimum Start Voltage	10.0VDC / 10.5VDC for 12VDC mode(*2 for 24VDC, *4 for 48VDC)														
	Low Battery Alarm	10.5VDC ±0.3V for 12VDC mode(*2 for 24VDC, *4 for 48VDC)														
	Low Battery Cut Off	10.0VDC ±0.3V for 12VDC mode(*2 for 24VDC, *4 for 48VDC)														
	High Voltage Alarm	16.0VDC ±0.3V for 12VDC mode(*2 for 24VDC, *4 for 48VDC)														
	High Battery Voltage Recover	15.5VDC ±0.3V for 12VDC mode														
Idle Consumption-Search Mode	<25W when power saver on															
CHARGER	Output Voltage	Depends on battery type														
	Charge AC Input Breaker Rating	10A		30A		30A		30A		30A		40A		40A		
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)														
	Maximum Charge Current	35A	20A	45A	25A	65A	35A	75A	45A	30A	65A	35A	70A	40A	75A	50A
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	10A		30A		30A		30A		30A		40A		40A		
Max Bypass Current	30Amp															
MECHANICAL SPECIFICATIONS	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								
	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		
OTHER	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)														