

PV3000 PK Series Low Frequency Solar Inverter

Feature:

- Rated power 1kw to 6kw
- Pure sine wave output
- Built-in 50A PWM solar charge controller
- 3 times surge power
- Wide frequency 40Hz -80Hz
- Built-in pure copper UI transformer
- Overload & short circuit protection
- Smart battery charger design for optimized battery performance
- Supporting RS232 communication, AGS, BTS port
- Remote control panel (optional)
- Compatible to generator

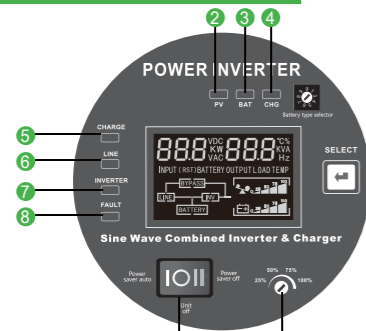
Back Panel



Introduction:

PV3000 PK series is a very economical pure sine wave inverter with 50A PWM solar charger controller. And AC charge current range is from 35A to 70A. PV/AC priority configurable. When PV is priority, if its charging current is lower than that of AC, the AC will supplement the extra power and charge the batteries simultaneously. With pure copper transformer, The inverter is suitable for all kinds of home appliances.

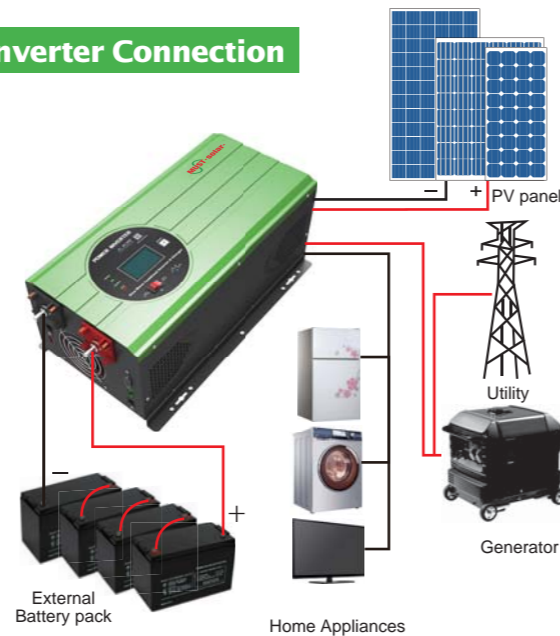
LCD/LED Display Information



1. Switch	Power saver auto: Power on with saver mode(power saver ≤25W)
	Unit Off: Power totally off(If there is AC power,inverter have charger function)
	Power saver off: Power on without saver mode

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|---------|---------------------------|-------------------|---|
| 2. PV | PV voltage Indicator | 7. INVERTER | Inverter Indicator |
| 3. BATT | Battery voltage Indicator | 8. FAULT | Check inverter |
| 4. CHG | PV Charge Indicator | 9. Remote control | Charge current adjustable:25%,50%,75%,100%.(Optional) |
| 5. LINE | AC Charge Indicator | | |
| | AC power Indicator | | |

Inverter Connection



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|-----------------------------|-------------------------|
| 1. Battery input | 6. AGS |
| 2. RS232 communication port | 7. BTS |
| 3. Charger Input Protect | 8. DIP Switch (SW1-SW5) |
| 4. Inverter Output Protect | 9. Remote control |
| 5. Output 10A MAX | |

Specification

MODEL	PV30-1KW PK	PV30-1.5KW PK	PV30-2KW PK	PV30-3KW PK	PV30-4KW PK	PV30-5KW PK	PV30-6KW PK
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, 15KW, 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/120VAC, 220V/230V/240VAC(±10% RMS), 220V/230V/240VAC(±10% RMS) Output Frequency: 50Hz/60Hz±0.3 Hz 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 for12VDC mode (*2 for 24VDC, *4 for 48VDC) Low Battery Alarm: 10.5VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC) Low Battery Cutoff: 10.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC) High Voltage Alarm: 16.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC) High Battery Voltage Recover: 15.5VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC) Idle Consumption-Search Mode: <25W when power saver on						
CHARGER	Output Voltage: Depends on battery type Charger 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) 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 Max Bypass Current: 30Amp						
SOLAR CHARGER	Maximum PV Charge Current: 50A DC Voltage: 12V/24V/48V PWM Range @ Operating Voltage: 15-80VDC Maximum PV Array Open Circuit Voltage: 90VDC Maximum Efficiency: >97% Standby Power Consumption: <2W						
MECHANICAL SPECIFICATIONS	Mounting: Wall mount Dimensions (W*H*D): 426*206*178 mm, 601*206*178mm Net Weight (Solar CHG) kg: 18.5, 18.4, 19.5, 19.4, 23.5, 32.2, 28.7, 27, 23.3, 41.3, 39.4, 50.4, 48.8, 51.8, 49.2 Shipping Dimensions(W*H*D): 570*355*300mm, 743*372*312mm Shipping Weight (Solar CHG) kg: 21.5, 21.4, 22.4, 22.5, 25.8, 25.6, 31.2, 29.6, 25.8, 44.7, 42.8, 54, 52.4, 55.7, 53.1						
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						

* Product specifications are subject to change without further notice.

Approximate Back-up Time Table

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
1000	0.4806	1.602	3.50304	7.6896	
2000	0.2136	0.4806	1.602	3.50304	7.6896
3000	0.1068	0.2848	0.8544	2.136	4.8416
4000		0.2136	0.4806	1.602	3.50304
5000		0.12816	0.34176	1.19616	2.73408
6000		0.1068	0.2848	0.8544	2.136