

## PV3000 LPK Series Low Frequency Off Grid Solar Inverter

### Feature:

- Rated power 1kw to 4kw
- 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

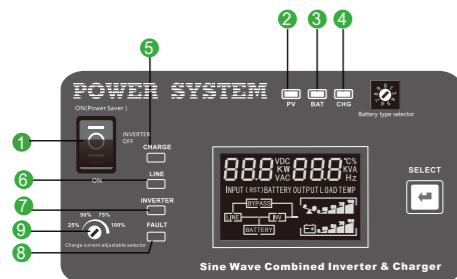
### Back Panel



### 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.

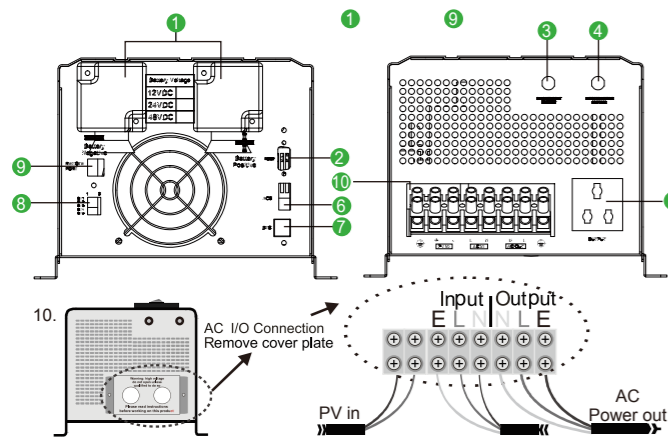
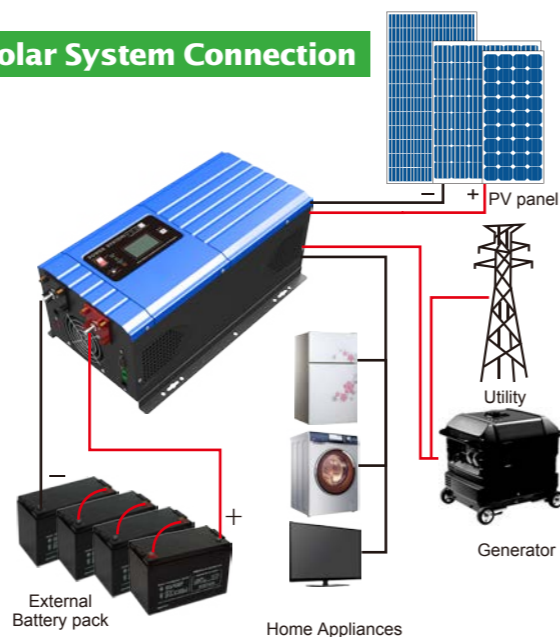
### LCD/LED Display Information



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

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|---------------------------|--|
| 2. PV voltage normal      | 7. Inverter mode   |
| 3. Battery voltage normal | 8. Check inverter  |
| 4. PV Charge              | 9. Charge current adjustable:25%,50%,75%,100%.(Optional) |
| 5. AC Charge              |  |
| 6. AC power on            |  |

### Solar System Connection



- |                             |                         |
|-----------------------------|-------------------------|
| 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	PV30-1012 LPK	PV30-1024 LPK	PV30-1512 LPK	PV30-1524 LPK	PV30-2012 LPK	PV30-2024 LPK	PV30-3012 LPK	PV30-3024 LPK	PV30-3048 LPK	PV30-4024 LPK	PV30-4048 LPK
<b>Nominal Battery System Voltage</b>	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC	24VDC	48VDC
<b>INVERTER OUTPUT</b>	Rated Power: 1.0KW, 3.0KW, 1.5KW, 4.5KW, 2KW, 6.0KW, 3KW, 9.0KW, 4KW, 12KW Surge Rating (20ms): 3.0KW, 4.5KW, 6.0KW, 9.0KW, 12KW Capable Of Starting Electric Motor: 1HP, 2HP Waveform: Pure sine wave/ same as input (bypass mode) Nominal Output Voltage RMS: 100V/110V/120VAC(±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)										
<b>AC INPUT</b>	Voltage: 120VAC Selectable Voltage Range: 80~135VAC(For Personal Computers) Frequency Range: 50Hz/60Hz (Auto sensing) 40~80Hz										
<b>BATTERY</b>	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										
<b>CHARGER</b>	Output Voltage: Depends on battery type Charger AC Input Breaker Rating: 10A, 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										
<b>BYPASS &amp; PROTECTION</b>	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, 40A Max Bypass Current: 30Amp, 40Amp										
<b>SOLAR CHARGER</b>	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										
<b>MECHANICAL SPECIFICATIONS</b>	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 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										
<b>OTHER</b>	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	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