

## PV3000 LMPK Series Low Frequency Off Grid Solar Inverter

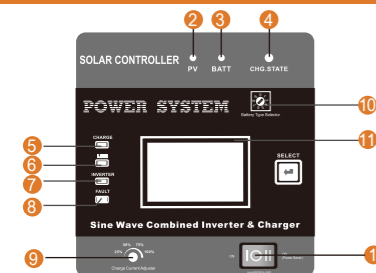
### Feature:

- Rated power 1kw to 4kw
- Pure sine wave output
- Powerful charge rate up to 70Amp
- Built-in MPPT solar charge controller 40A/45A/60A
- MPPT efficiency max 98%
- Built-in pure copper UI transformer
- DIP Switch offer customized performance
- High Efficiency Design & "Power Saving Mode" to Conserve Energy
- Supporting RS232 communication, AGS, BTS port
- Remote control panel (optional)
- Compatible to generator

### Introduction:

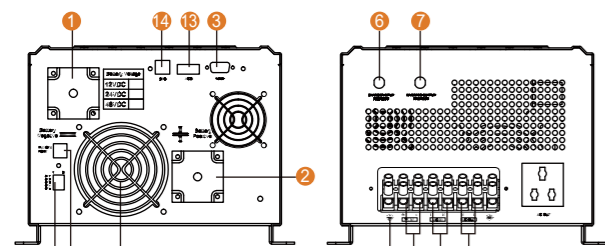
This is a multi-function inverter, combining functions of inverter and mppt solar charger controller, solar charger and battery charger to offer uninterruptible power support with portable size. The comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and selectable input voltage based on different applications.

### LCD Display Information



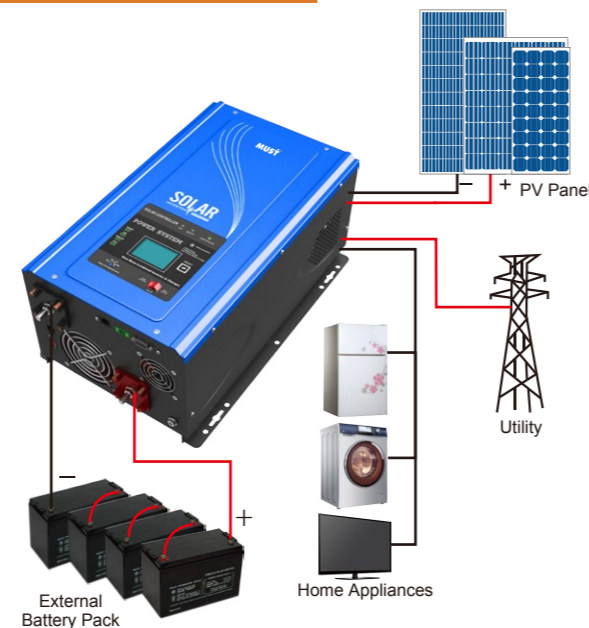
1. Switch  
ON(Power saver): Power on with saver mode(power saver  $\leq 25W$ )  
INVERTER OFF: Power totally off(If there is AC power,inverter have charger function)  
ON: Power on without saver mode

2. PV voltage normal  
3. Battery voltage normal  
4. PV Charging  
5. AC Charge  
6. AC power on  
7. inverter mode  
8. check inverter  
9. Charge current adjustable:25%,50%,75%,100%. (Optional)  
10. Battery type selector  
11. LCD display



1. BAT<sup>-</sup>  
2. BAT<sup>+</sup>  
3. RS232 communication port  
4. Remote port  
5. FAN  
6. AC input/Bypass breaker  
7. AC output breaker  
8. GND  
9. PV1 input  
10. AC input  
11. AC output  
12. Function switch(SW1~SW5)  
13. AGS  
14. BTS

### Solar System Connection



### Back Panel



### Specification

MODEL	PV30-1012	PV30-1024	PV30-1512	PV30-1524	PV30-2012	PV30-2024	PV30-3012	PV30-3024	PV30-3048	PV30-4024	PV30-4048		
	LMPK	LMPK	LMPK	LMPK	LMPK	LMPK	LMPK	LMPK	LMPK	LMPK	LMPK		
<b>Nominal Battery System Voltage</b>	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC	24VDC	48VDC		
<b>INVERTER OUTPUT</b>	Rated Power	1KW		1.5KW		2KW		3KW		4KW			
	Surge Rating (20ms)	3KW		4.5KW		6KW		9KW		12KW			
	Capable Of Starting Electric Motor	1HP				2HP							
	Waveform	Pure sine wave/ same as input (bypass mode)											
	Nominal Output Voltage RMS	100V/110V/120VAC											
	Output Frequency	50Hz/60Hz +/-0.3 Hz											
	Inverter Efficiency(Peak)	>88%											
	Line Mode Efficiency	>95%											
<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, )								20.0VDC-21.0VDC /40.0VDC-42.0VDC			
	Low Battery Alarm	10.5VDC +/-0.3V for12VDC mode (*2 for 24VDC, )								21.0VDC +/-0.6V /42.0VDC +/-1.2V			
	Low Battery Cutoff	10.0VDC +/-0.3V for12VDC mode (*2 for 24VDC, )								20.0VDC +/-0.6V /40.0VDC +/-1.2V			
	High Voltage Alarm	16.0VDC +/-0.3V for12VDC mode (*2 for 24VDC, )								32.0VDC +/-0.6V /64.0VDC +/-1.2V			
	High Battery Voltage Recover	15.5VDC +/-0.3V for12VDC mode (*2 for 24VDC, )								31.0VDC +/-0.6V /62.0VDC +/-1.2V			
	Idle Consumption-Search Mode	<25W when power saver on								<50W when power saver on			
<b>AC 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, )								31.4VDC/62.8VDC			
	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 Array Power	600W	1200W	600W	1200W	600W	1200W	600W	1200W	2400W	1600W	3200W	
	Maximum PV Charge Current	40A											
	DC Voltage	12V/24V atuo work								24V/48V atuo work			
	MPPT Range @ Operating Voltage	16~100VDC								32~145VDC @ 24V / 64~145VDC @ 48V			
	Maximum PV Array Open Circuit Voltage	100VDC											
	Maximum Efficiency	>98%											
	Standby Power Consumption	<2W											
<b>MECHANICAL SPECIFICATIONS</b>	Mounting	Wall mount											
	Dimensions (W*H*D)	423*247*197mm								597*247*197mm			
	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	25.1	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	
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