

PV3000 LMPK Series

Low Frequency Off Grid Solar Inverter



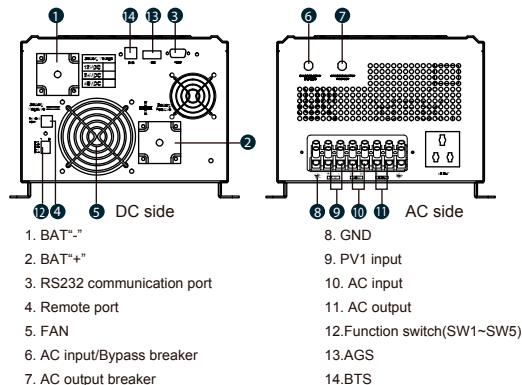
- Feature:**
- Rated power 1kw to 4kw
 - Pure sine wave output
 - Powerful charge rate up to 70Amp
 - Built-in MPPT solar charge controller 40A/45A/60A
 - MPPT efficiency max 98%
 - Built-in pure copper UI transformer
 - DIP Switch offer customized performance
 - High Efficiency Design & "Power Saving 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/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
2. PV	PV voltage normal
3. BATT	Battery voltage normal
4. CHG STATE	PV Charging
5. AC CHG	AC Charge
6. AC ON	AC power on
7. INV MODE	inverter mode
8. INV	check inverter
9. CHG	Charge current adjustable:25%,50%,75%,100%. (Optional)
10. BATT	Battery type selector
11. LCD	LCD display



Solar System Connection



Back Panel



PV3000 LMPK Series

Low Frequency Off Grid Solar Inverter

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	LMPK
Nominal Battery System Voltage		12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC	24VDC	48VDC	
INVERTER OUTPUT	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%											
Power Factor	1.0												
Typical Transfer Time	10ms(max)												
AC INPUT	Voltage	120VAC											
	Selectable Voltage Range	80~135VAC(For Personal Computers)											
	Frequency Range	50Hz/60Hz (Auto sensing) 40-80Hz											
BATTERY	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		
AC CHARGER	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,)											
	Maximum Charge Current	35A	20A	45A	25A	65A	35A	75A	45A	30A	65A	35A	
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						40A		
	Max Bypass Current	30Amp						40Amp					
SOLAR CHARGER	Maximum PV Array Power	600W	1200W	600W	1200W	600W	1200W	600W	1200W	2400W	1600W	3200W	
	Maximum PV Charge Current	40A									45A	60A	
	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									145VDC		
	Maximum Efficiency	>98%											
	Standby Power Consumption	<2W											
MECHANICAL SPECIFICATIONS	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	
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