

# PV2000LPK Series

## Low Frequency Off Grid Inverter

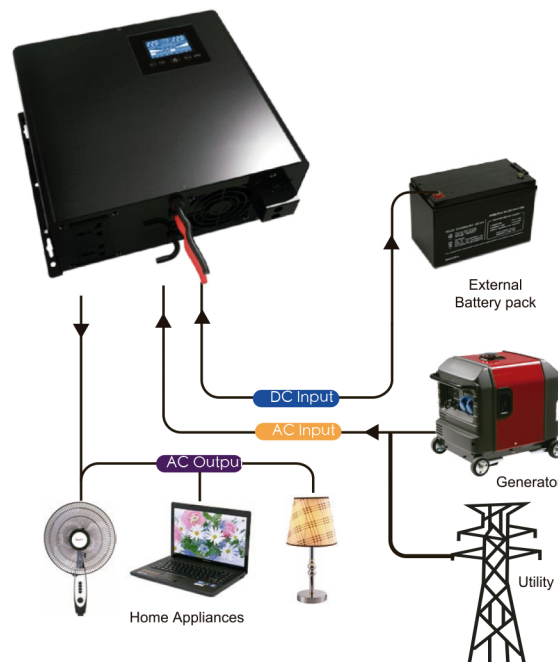


- Feature:
- Rated power 700W to 1000W
  - Pure sine wave output
  - Smart LCD setting (battery type, charge current, etc).  
3 steps charging algorithm
  - Standby Power Consumption: 20W-25W
  - Overload and short-circuit protection
  - Deep discharge protection
  - Cold start function
  - Support USB, RS232 (optional) monitoring function with free CD

### Introduction:

It is pure sine wave inverter, AC input voltage range for 80V-135V with AC function, with multi-protection such as battery reversed polarity protection, overload protection, short-circuit protection etc. It can also be monitored by an USB cable connected between inverter and computer.

### Solar System Connection



### Back Panel



### Specification

MODEL		EP20-7012 RPO	EP20-9012 PRO	EP20-1024 PRO
<b>Battery Input Voltage Rating</b>		12VDC		24VDC
<b>INVERTER OUTPUT</b>	Rated Power	700W	900W	1000W
		700W	900W	1000W
	Instantaneous Power Drawn (20ms)	2100W	2700W	3000W
	Output Waveform	Pure sine wave		
	Output Voltage	Inverter mode: 120V ±2% RMS		
	Output Power Factor	1.0		
	Output Frequency	50Hz/60Hz ±0.1 Hz		
	Inverting Efficiency (peak)	> 88%		
	Mains Mode Efficiency	> 95%		
Transfer Time	Typical 2~6ms 10ms(max)			
<b>AC INPUT</b>	Input Voltage	120 VAC		
	Input Voltage Range	80V~145VAC±2%		
	Low Pressure Shutdown	80VAC±2%		
	Low Response	90VAC±2%		
	High Pressure Shutdown	145VAC±2%		
	High Pressure Reply	140VAC±2%		
	Low Frequency Shutdown	40±0.2Hz		
	Low Frequency Response	41±0.2Hz		
	High Frequency Shutdown	65±0.2Hz		
	High-frequency Response	64±0.2Hz		
	Frequency Range	40-65Hz ±0.2HZ		
	<b>BATTERY</b>	Minimum Start Voltage	Battery under voltage shut-down point +0.5V	
Low Battery Alarm		Battery under voltage shut-down point +0.5V		Battery under voltage shut-down point +1.0V
Low Battery Shutdown		(10.0V/10.5V/10.8V/11.0V User set		User set
Battery High Voltage Alarm		15.5Vdc		31Vdc
<b>AC CHARGER</b>	Bettery type selection	GEL Bettery	Average charge voltage 14.1 V	FLoot change voltage 13.7 V
		LEAD Bettery	Average charge voltage 14.4 V	FLoot change voltage 13.6 V
		FLOOD Bettery	Average charge voltage 14.8 V	FLoot change voltage 13.3 V
Maximum Charge Current	10A±2A	15A±2A	15A±2A	
<b>PROTECTION</b>	Overload Protection	110%~125%R load fault after 60s    125% ~150%R load fault after 3s >150%R load fault after 500ms		
	Output Short Circuit Protection	Yes		
	Bypass Circuit Breaker Insurance	15A		
	Maximum Current Bypass	13A		20A
<b>MECHANICAL SPECIFICATIONS</b>	Assembly	Wall mount		
	Dimension (W*H*D) (mm)	320*300*135		
	Net Weight KG	9.0	10.0	10.5
	Shipping Dimensions (mm)	400*335*195		
	Transport Weight KG	10.0	11.0	11.5
<b>OTHER</b>	Working Environment	0°C~40°C 0~90% Relative humidity (non-condensing)		
	Noise	Less than 60db		
	Display	LED + LCD		