



## PV1800 PK Series High Frequency Off Grid Solar Inverter

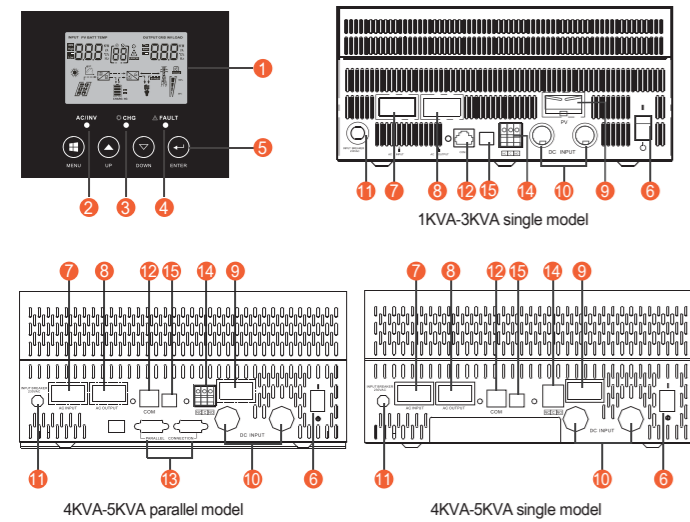
### Feature:

- Rated power 2KVA to 5KVA
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in PWM 50A solar charge controller
- New SUB working mode(Solar-Utility-Battery working mode) for 4K-5K series
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Parallel operation with up to 3 units (Available for 4KVA/5KVA only)
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI/ GPRS remote monitoring (optional)
- Compatible to generator

### Introduction:

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

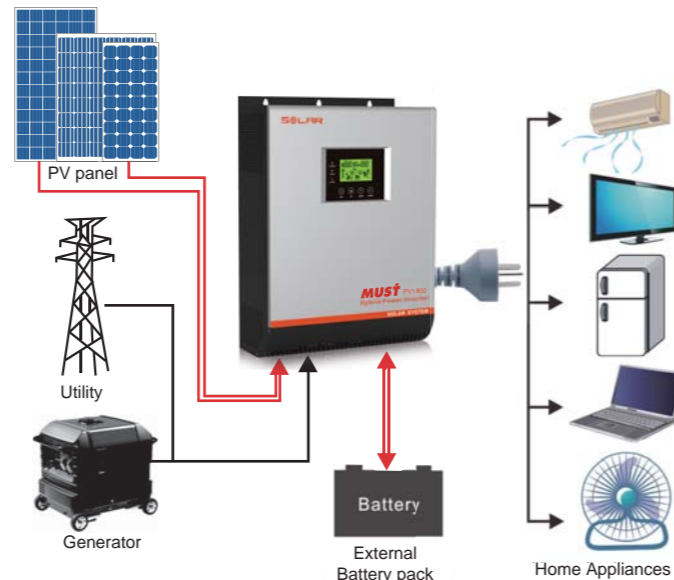
### LCD Display Information



1. LCD display
2. Status indicator
3. Discharging/Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. Circuit breaker
12. RS485 communication port
13. Parallel communication cable (only for parallel model)
14. Dry contact
15. USB

**NOTE:** For parallel model installation and operation, please check separate parallel installation guide for the details.

### Solar System Connection



### Back Panel



### Specification

MODEL		PV18-2024 PK	PV18-3024 PK	PV18-4048 PK	PV18-5048 PK
<b>Default Battery System Voltage</b>		24VDC	24VDC	48VDC	48VDC
<b>INVERTER OUTPUT</b>	Rated Power	2000VA	3000VA	4000VA	5000VA
	Surge Power	1600W	2400W	3200W	4000W
	Waveform	Pure sine wave			
	AC Voltage Regulation (Batt.Mode)	220VAC~240VAC			
	Inverter Efficiency (Peak)	93%			
	Transfer Time	10ms (FST. APL) 、 20ms (SLO)			
<b>AC INPUT</b>	Voltage	230VAC			
	Selectable Voltage Range	170~280VAC (FST) 、 90~280VAC (SLO) 、 184~253VAC (APL)			
	Frequency Range	50Hz/60Hz (Auto sensing)			
<b>BATTERY</b>	Normal voltage	24VDC		48VDC	
	Floating Charge Voltage	27VDC		54VDC	
	Overcharge Protection	31VDC		60VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>	Maximum PV Array Open Circuit Voltage	80VDC		105VDC	
	Standby Power Consumption	2W		2W	
	(PWM) Maximum Solar Charge Current	50A			
	Maximum AC Charge Current	20A or 30A		60A	
	Maximum Charge Current	80A		110A	
<b>MECHANICAL SPECIFICATION</b>	Machine Dimensions (W*H*D)(mm)	272*355*100		297.5*468*125	
	Package Dimensions (W*H*D)(mm)	465*373*231		618*415*261	
	Net Weight(kg)	7.8		12	
	Gross Weight(kg)	10.3		13.5	
<b>OTHER</b>	Humidity	5% to 95% Relative Humidity (Non-condensing)			
	Operating Temperature	0°C -55°C			
	Storage Temperature	-15°C -60°C			
	Loading(20GP/40GP/40HQ)	570pcs / 1150pcs / 1380 pcs		360pcs / 720pcs / 850pcs	

\* Product specifications are subject to change without further notice.

### Approximate Back-up Time Table

Model	Load (VA)	Backup Time@24V 100Ah(min)	Backup Time@24V 200Ah(min)	Model	Load (VA)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)
2KVA	200	766	1610	4KVA	400	766	1610
	1000	112	269		2000	112	269
	2000	50	112		4000	50	112
3KVA	300	449	1100	5KVA	500	613	1288
	1500	68	164		2500	90	215
	3000	28	67		5000	40	90