

1800 PK Series High Frequency Solar Inverter

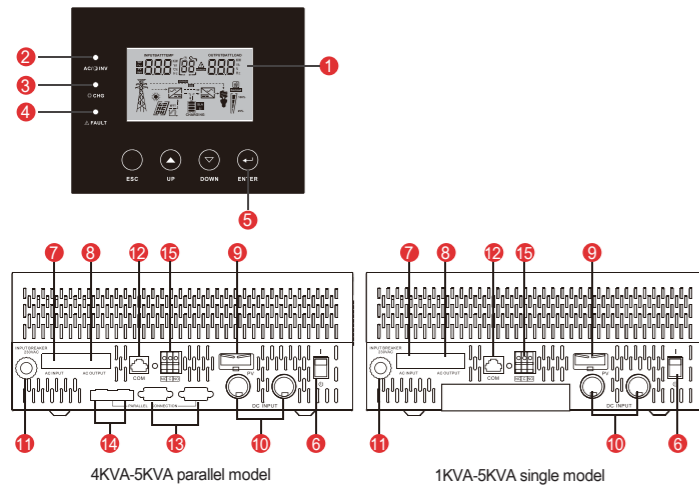
Feature:

- Pure sine wave output
- Built-in PWM solar charge controller 50A
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Parallel operation with up to 6 units (Available for INPOWERS 18-4K/5K PK)
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design to optimize battery performance
- Cold start function
- Optional Remote Control Panel available

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.

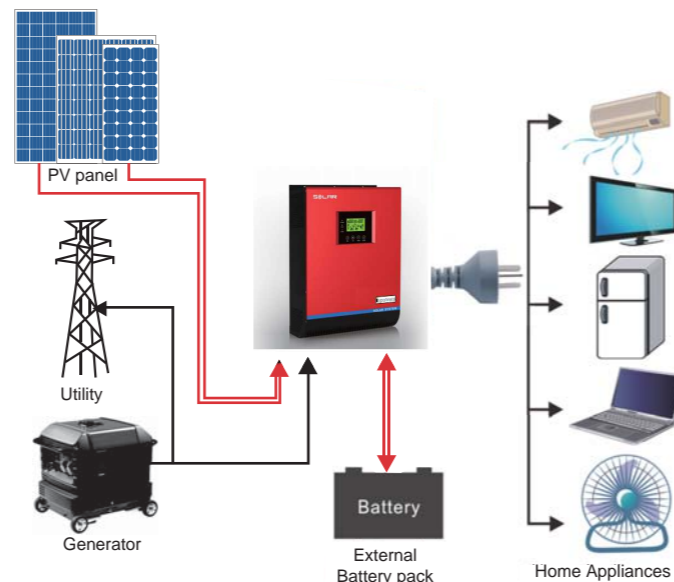
LCD Display Information



- LCD display
- Status indicator
- Charging indicator
- Fault indicator
- Function buttons
- Power on/off switch
- AC input
- AC output
- PV input
- Battery input
- Circuit breaker
- RS232 communication port
- Parallel communication cable (only for parallel model)
- Current sharing cable (only for parallel model)
- Dry contact

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

Solar System Connection



Back Panel



Specification

MODEL		18-1K PK	18-2K PK	18-3K PK	18-4K PK	18-5K PK
Default Battery System Voltage		12VDC	24VDC	24VDC	48VDC	48VDC
INVERTER OUTPUT	Rated Power	1000VA	2000VA	3000VA	4000VA	5000VA
	Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA
	Waveform	Pure sine wave				
	AC Voltage Regulation (Batt.Mode)	230VAC±5%				
	Inverter Efficiency (Peak)	90%	93%			
	Transfer Time	10ms(For Personal Computers) 20ms(For Home Appliances)				
AC INPUT	Voltage	230VAC				
	Selectable Voltage Range	170~280VAC(For Personal Computers) 90~280VAC(For Home Appliances)				
	Frequency Range	50Hz/60Hz (Auto sensing)				
BATTERY	Nominal voltage	12VDC	24VDC	48VDC		
	Floating Charge Voltage	13.5VDC	27VDC	54VDC		
	Overcharge Protection	15.5VDC	31VDC	60VDC		
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	50VDC	60VDC	105VDC		
	Standby Power Consumption	1W	2W	2W		
	(PWM)Maximum Solar Charge Current	50A				
	Maximum AC Charge Current	10A or 20A	20A or 30A	60A		
	Maximum Charge Current	50A	50A	110A		
MECHANICAL SPECIFICATION	Dimension,W*H*D	240*316*95mm	272*355*100mm		297.5*468*125mm	
	Net Weight (kg)	8	12	15		
OTHER	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@12V 100Ah(min)	Backup Time@12V 200Ah(min)	Model	Load (VA)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)
1KVA	100	766	1610	4KVA	400	766	1610
	600	95	227		2000	112	269
	1000	50	112		4000	50	112
Model	Load (VA)	Backup Time@24V 100Ah(min)	Backup Time@24V 200Ah(min)	5KVA	500	613	1288
2KVA	200	766	1610		2500	90	215
	1000	112	269		5000	40	90
	2000	50	112				
3KVA	300	449	1100				
	1500	68	164				
	3000	28	67				