

PV1800 HM Series High Frequency Solar Inverter

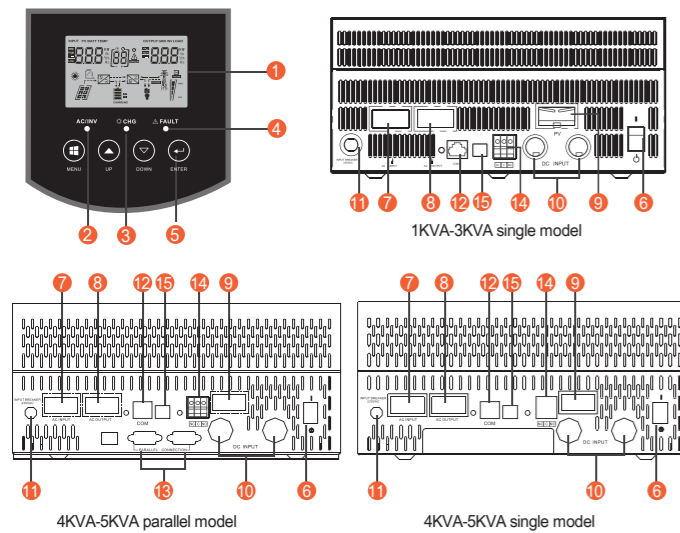
Feature:

- Rated power 2KVA to 3KVA
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 40A or 60A solar charge controller
- MPPT Efficiency max 98%
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- 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, MPPT 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 AC input voltage based on different applications.

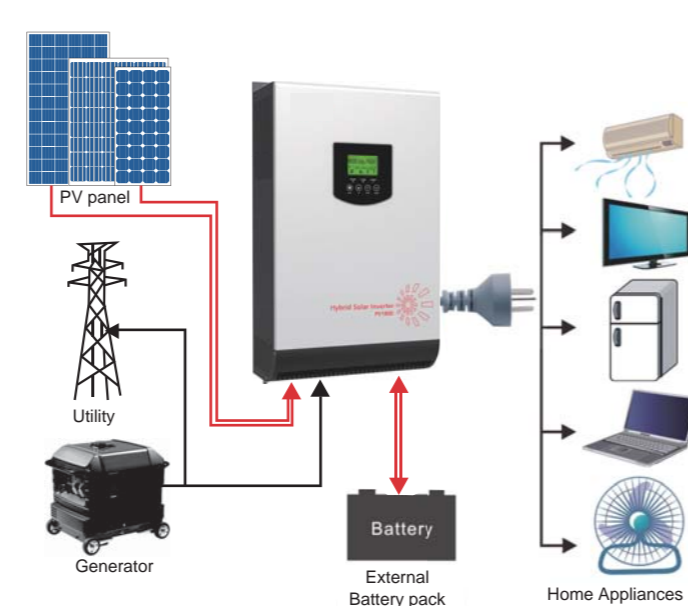
LCD Display Information



- LCD display
- Status indicator
- Discharging/Charging indicator
- Fault indicator
- Function buttons
- Power on/off switch
- AC input
- AC output
- PV input
- Battery input
- Circuit breaker
- RS485 communication port
- Parallel communication cable (only for parallel model)
- Dry contact
- USB

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

Solar System Connection



Back Panel



Specification

MODEL		PV18-2K HM				PV18-3K HM					
Default Battery System Voltage		24VDC		48VDC		24VDC		48VDC			
INVERTER OUTPUT	Rated Power	2000VA				3000VA					
	Surge Power	1600W				2400W					
	Waveform	4000VA									
	AC Voltage Regulation (Batt.Mode)	Pure sine wave									
	Inverter Efficiency(Peak)	220VAC~240VAC									
	Transfer Time	93%									
AC INPUT	Voltage	10ms(FST、APL); 20ms(SLO)									
	Selectable Voltage Range	230VAC									
	Frequency Range	170-280VAC(FST) ; 90-280VAC(SLO);184-253VAC(APL)									
BATTERY	Normal voltage	24VDC		48VDC		24VDC		48VDC			
	Floating Charge Voltage	27VDC		54VDC		27VDC		54VDC			
	Overcharge Protection	31VDC		62VDC		31VDC		60VDC			
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	145VDC									
	PV Array MPPT Voltage Range	30~130VDC		64~130VDC		30~130VDC		64~130VDC			
	Standby Power Consumption	2W									
	PV Input Power	1000W	1500W	2000W	3000W	4000W	1000W	1500W	2000W	3000W	4000W
	Maximum Solar Charge Current	40A	60A	80A	60A	80A	40A	60A	80A	60A	80A
	Maximum Efficiency	98%									
MECHANICAL SPECIFICATIONS	Maximum AC Charge Current	20A or 30A		10A or 20A		20A or 30A		10A or 20A			
	Maximum ChargeCurrent	60A	80A	100A	70A	90A	60A	80A	100A	70A	90A
	Machine Dimensions (W*H*D)(mm)	272*355*100									
Package Dimensions (W*H*D)(mm)	540*395*241										
OTHER	Net Weight(kg)	10				11					
	Gross Weight(kg)	11.7				12					
	Humidity	5% to 95% Relativ Humidity (Non-condensing)									
Operating Temperature	0°C -55°C										
Storage Temperature	-15°C -60°C										

* 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	2KVA	200	1581	3161
	1000	112	269		1000	268	615
	2000	50	112		2000	106	257
3KVA	300	449	1100	3KVA	300	1054	2107
	1500	68	164		1500	159	402
	3000	28	67		3000	63	155