



PV1800 HM Series High Frequency Off Grid Solar Inverter

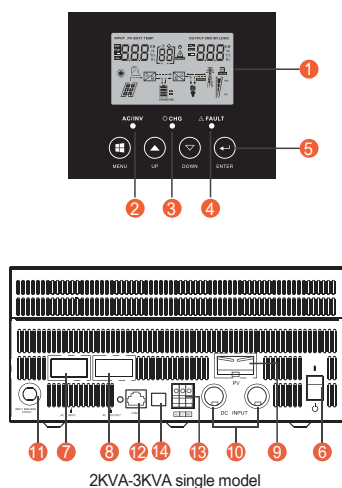
Feature:

- Rated power 2KVA to 5KVA
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 60A or 80A solar charge controller
- MPPT Efficiency max 98%
- 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
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI 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.

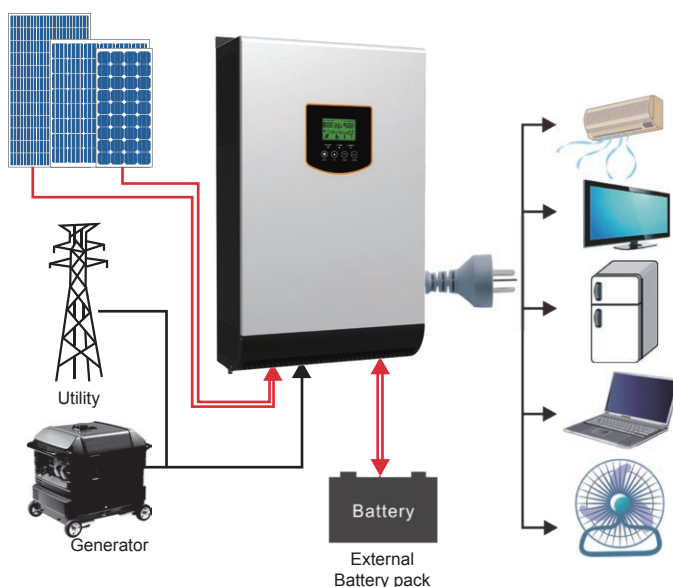
LCD Display Information



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|-----------------------------------|------------------------------|
| 1. LCD display | 10. Battery input |
| 2. Status indicator | 11. Circuit breaker |
| 3. Discharging/Charging indicator | 12. RS485 communication port |
| 4. Fault indicator | 13. Dry contact |
| 5. Function buttons | 14. USB |
| 6. Power on/off switch | |
| 7. AC input | |
| 8. AC output | |
| 9. PV input | |

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 HM	PV18-3024 HM	PV18-4048 HM	PV18-5048 HM
Default Battery System Voltage		24VDC		48VDC	
INVERTER OUTPUT	Rated Power	2000VA	3000VA	4000VA	5000VA
		1600W	2400W	3200W	4000W
	Surge Power	4000VA	6000VA	8000VA	10000VA
	Waveform	Pure sine wave			
	AC Voltage Regulation (Batt.Mode)	220VAC~240VAC			
	Inverter Efficiency(Peak)	93%			
	Transfer Time	10ms (For Personal Computers) 20ms (For Home Appliance)			
AC INPUT	Voltage	230VAC			
	Selectable Voltage Range	170~280VAC(For Personal Computers)、90~280VAC(For Home Appliances)、184~253VAC(VDE4105)			
	Frequency Range	50Hz/60Hz (Auto sensing)			
BATTERY	Normal voltage	24VDC		48VDC	
	Floating Charge Voltage	27VDC		54VDC	
	Overcharge Protection	31VDC		60VDC	
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	145VDC			
	PV Array MPPT Voltage Range	30~130VDC		64~130VDC	
	Standby Power Consumption	2W			
	PV Input Power	1500W		3000W/4000W	
	Maximum Solar Charge Current	60A		60A/80A	
	Maximum Efficiency	98%			
	Maximum AC Charge Current	20A or 30A		60A	
	Maximum ChargeCurrent	60A / 80A / 100A		120A	140A
MECHANICAL SPECIFICATIONS	Machine Dimensions (W*H*D)(mm)	272*355*100		295*528*121	
	Package Dimensions (W*H*D)(mm)	540*395*241		628*425*251	
	Net Weight(kg)	10	11	13	14
	Gross Weight(kg)	11.7	12	14	15
OTHER	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	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