



## PV1800 HM Series High Frequency Off Grid Solar Inverter

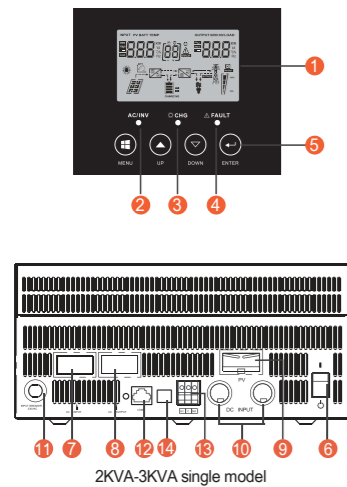
### Feature:

- Rated power 2KVA to 5KVA
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Builtin 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.

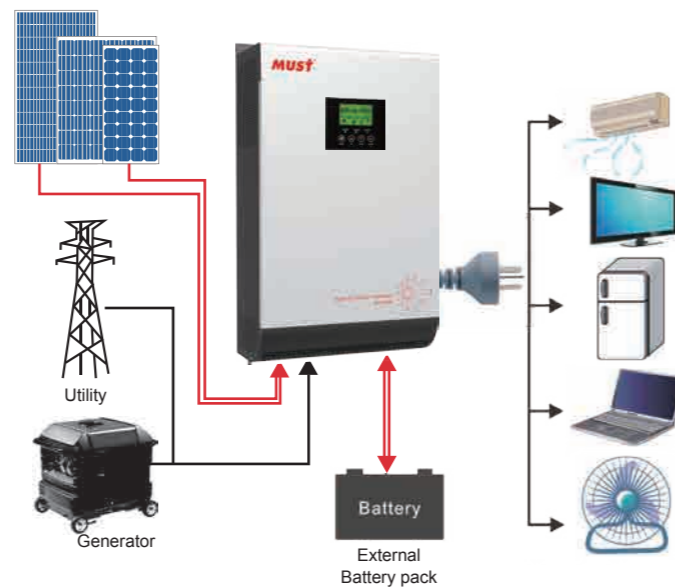
### LCD Display Information



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. Dry contact
14. 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 HM	PV18-3024 HM	PV18-4048 HM	PV18-5048 HM	
Default Battery System Voltage		24VDC		48VDC	
INVERTER OUTPUT	Rated Power	2000VA 1600W	3000VA 2400W	4000VA 3200W	
	Surge Power	4000VA	6000VA	8000VA	
	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		
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