


# High Frequency Off Grid Solar Inverter

## PV1800 LHM Series (AC120V: 1-3KW)



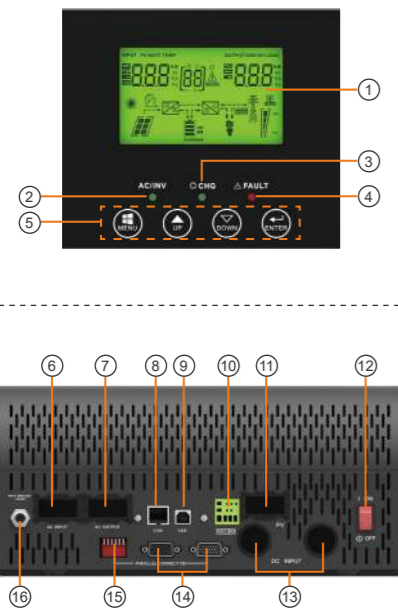
### Features

- Rated power : 1KW -3KW
- Pure sine wave solar inverter
- Output power factor 1
- Built-in 80A MPPT solar charger
- Built-in anti-dusk kit for harsh environment
- Support parallel operation up to 3 units (available for 3KW 48V)
- WIFI remote monitoring (optional)
- Compatible to generator

### Introduction

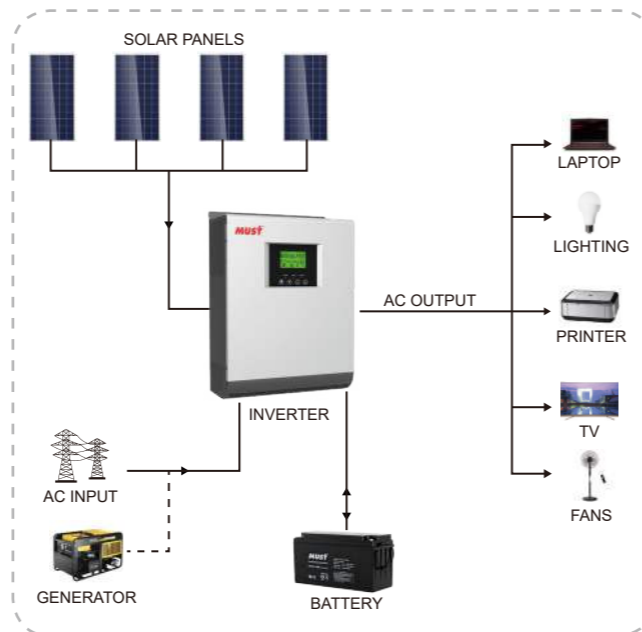
PV1800 LHM Series is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterrupted power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

### Back panel printing description



- |                              |                                 |
|------------------------------|---------------------------------|
| 1. LCD Display               | 9. USB                          |
| 2. Status Indicator          | 10. Dry Contact                 |
| 3. Charging Indicator        | 11. PV Input                    |
| 4. Fault Indicator           | 12. Power On/Off Switch         |
| 5. Function Buttons          | 13. Battery Input               |
| 6. AC Input                  | 14. Parallel communication port |
| 7. AC Output                 | 15. Parallel switch             |
| 8. RS-485 Communication port | 16. Circuit breaker             |

### Solar system connection



### Specification

MODEL		PV18-1024 LHM	PV18-1524 LHM	PV18-2024 LHM	PV18-2524 LHM	PV18-3024 LHM	PV18-3048 LHM	
Nominal Battery System Voltage		24VDC					48VDC	
INVERTER OUTPUT	Rated Power	1000W	1500W	2000W	2500W	3000W	3000W	
	Surge Power	2000W	3000W	4000W	5000W	6000W	6000W	
	Waveform	Pure sine wave						
	AC Voltage Regulation (Batt.Mode)	(100VAC ~ 120VAC)±5%						
	Inverter Efficiency(Peak)	93%						
	Transfer Time	10ms (UPS \ UL) 20ms (APL)						
AC INPUT	Voltage	120VAC						
	Selectable Voltage Range	90~145VAC(UPS), 60~145VAC(APL), 107~132VAC(VDE4105)						
	Frequency Range	50Hz \ 60Hz(Auto sensing)						
BATTERY	Normal voltage	24VDC					48VDC	
	Floating Charge Voltage	27VDC					54VDC	
	Overcharge Protection	30VDC					60VDC	
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	145VDC						
	PV Array MPPT Voltage Range	30-130VDC					60-130VDC	
	Standby Power Consumption	2W						
	PV Input Power	1440W/1920W					2880W/3840W	
	Maximum Solar Charge Current	80A						
	Maximum Efficiency	98%						
	Maximum AC Charge Current	60A						
Maximum Charge Current	140A							
MECHANICAL SPECIFICATIONS	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)	13.3						
	Gross Weight(kg)	16.4						
OTHER	Humidity	5% to 95% Relative humidity (Non-condensing)						
	Operating Temperature	0°C~50°C						
	Storage Temperature	-15°C ~60°C						