


High Frequency Off Grid Solar Inverter

PV1800 VHM Series (8KW-10KW)



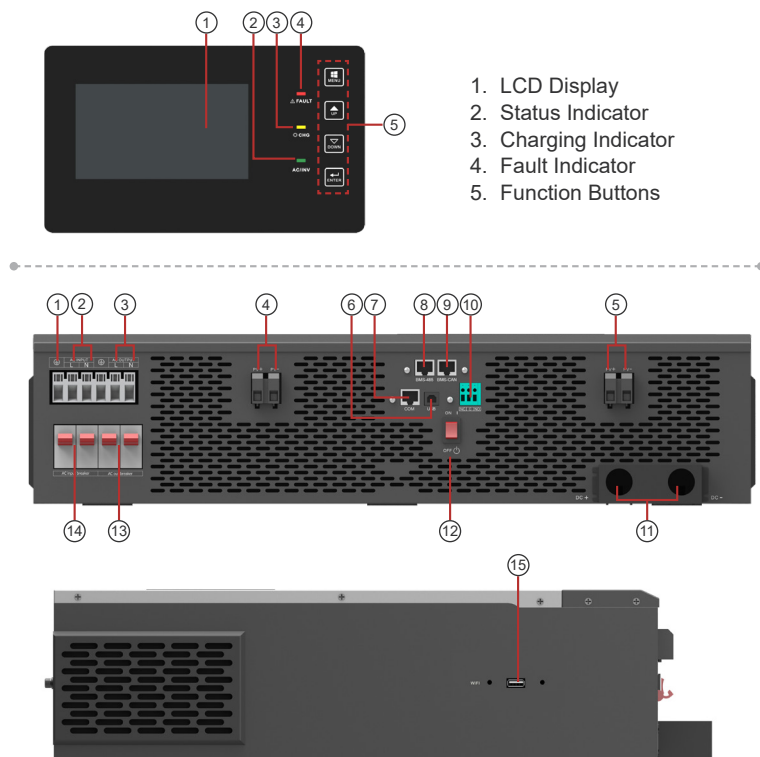
Features

- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Configurable AC/Solar Charger priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload/ Over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- WiFi remote monitoring (optional)

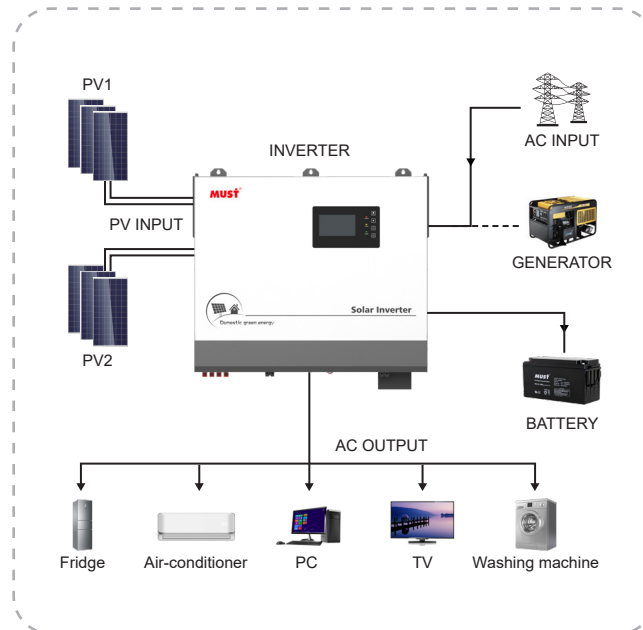
Introduction

This is a multi-function inverter/charger, combining functions of inverter, 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.

Back panel printing description



Solar system connection



- | | | |
|--------------|------------------------------|-------------------------|
| 1. Ground | 6. USB port | 11. Battery input |
| 2. AC Input | 7. RS-485 Communication port | 12. Power on/off Switch |
| 3. AC Output | 8. BMS-485 port | 13. AC input breaker |
| 4. PV1 Input | 9. BMS-CAN port | 14. AC output breaker |
| 5. PV2 Input | 10. Dry contact | 15. WiFi port |

Specification

MODEL	PV18-8048 VHM	PV18-10048 VHM
Nominal Battery System Voltage		48VDC
INVERTER OUTPUT	Rated Power	8000W
	Surge Power	16000W
	Waveform	Pure Sine Wave
	AC Voltage Regulation (Batt.Mode)	230VAC±5%
	Output Frequency	60Hz or 50Hz
	Inverter Efficiency(Peak)	93%
	Transfer Time	10ms (UPS) 20ms (APL)
	AC INPUT	Nominal Input Voltage
Max AC Input Voltage		300VAC
Selectable Voltage Range		170~280VAC (UPS) / 90~280VAC (APL) / 184~253VAC(VDE4105)
Frequency Range		50Hz / 60Hz(Auto detection)
BATTERY	Normal Voltage	48VDC
SOLAR CHARGER & AC CHARGER	AC Charging Current	2-120A
	Maximum PV Array Open Circuit Voltage	145VDC
	PV Array Open Circuit Voltage	60-130VDC
	Cold Start Voltage	46VDC
	Solar Charging Current	160A
	Default Charging Current	160A
	Maximum Charge Current	280A
	Charging Algorithm	3-step (Flooded Battery / AGM / GEL/ LEAD Battery), 4-step(LI)
MECHANICAL SPECIFICATIONS	Machine Dimension (W*H*D)	503*600*141.2mm
	Package Dimension (W*H*D)	/
	G.W (kg)	/
	N.W (kg)	/
	OTHER	Safety Certification
	Operating Temperature	0°C~50°C
	Storage Temperature	-15°C ~60°C