High Frequency Off Grid Solar Inverter

PV1800 VHM SERIES (2KW-5.5KW)

MUST
Solar Inverter
MUST
Solar Inverter

PV1800 VHM is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in 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.

Features

- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in 80A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dusk kit for harsh environment

Rated Power
2kw-5.5kw

Battery DC Voltage
24V/48V

Auto Frequency sensing
50Hz/ 60Hz

Multi Protection

Battery smart
charge design

Wide AC input
170~280V/ 90~280V

Appearance

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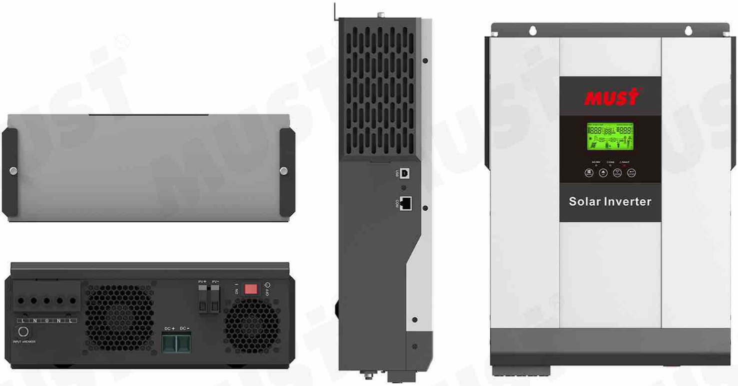
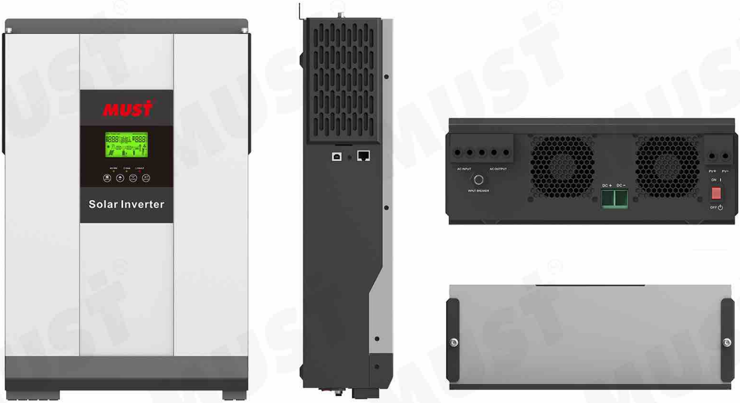
Solar Inverter


PV+
PV-
ON
OFF
DC+
DC-
INPUT BREAKER
USB
COM
MUST
Solar Inverter

(2KW-3KW)


MUST
Solar Inverter
AC INPUT
AC OUTPUT
INPUT BREAKER
DC +
DC −
PV+
PV−
ON
OFF

(3KW- 5.5KW)

Inside Structures

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Solar Inverter

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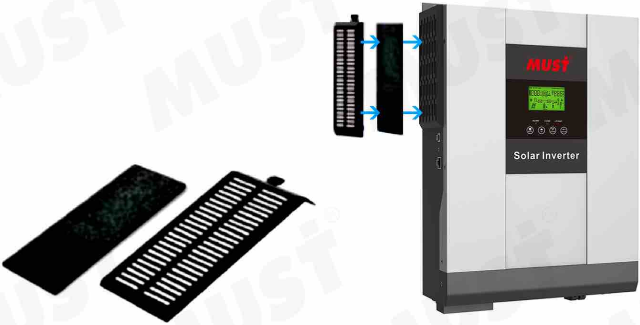
PRODUCT FEATURES

SMART & INTELLIGENT FEATURES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Anti-Dust Kit

After installing this anti-dust kit, inverter will automatically detect this kit and activate internal thermal sensor to adjust internal temperature. By virtue of the dustproof design, it dramatically increases product reliability in harsh environment.

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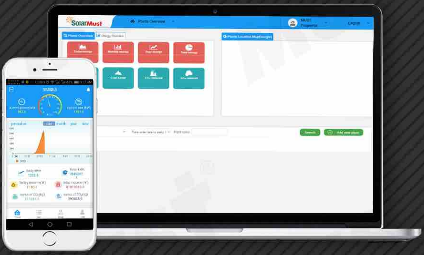
DC9-28V
RESET
ANT
PWR
LINK
TXD
RXD
WiFi-RTU
8000-10633-00
PN:B1417310199145
Wi-Fi RTU
RS-232


SolarMust
Plants Overview
English

Wifi communication

you can download this app on your cellphone and monitor the whole system, you will know how much electricity the system generate and sell to utility.

Android

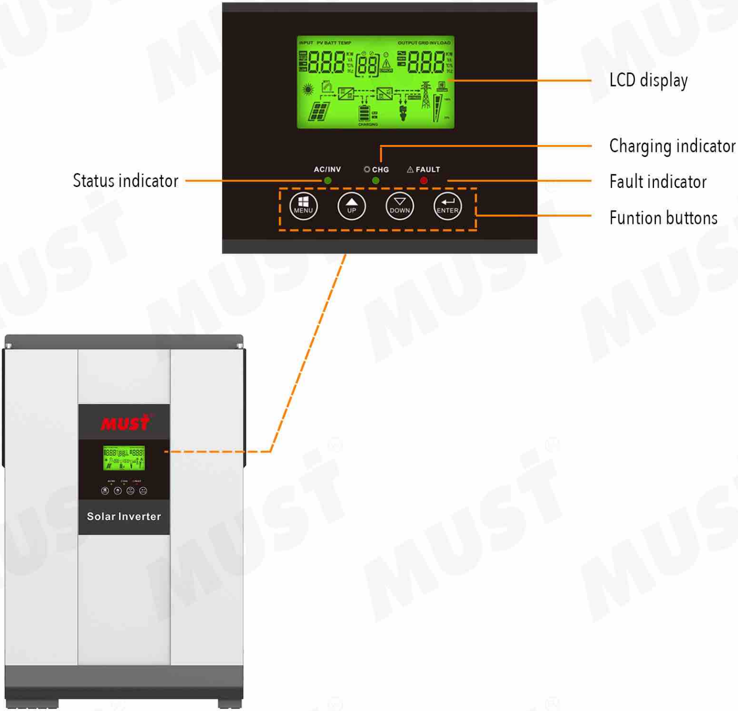
IOS

PRODUCT DETAILS

MUST HELP YOU CONTROL EVERY DETAIL

MUST MUST MUST MUST

Details reflect quality


INPUT PV BATT TEMP
OUTPUT GRID INV LOAD
CHARGING
LCD display
Charging indicator
Status indicator
AC/INV
CHG
FAULT
Fault indicator
MENU
UP
DOWN
ENTER
Funtion buttons
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Solar Inverter

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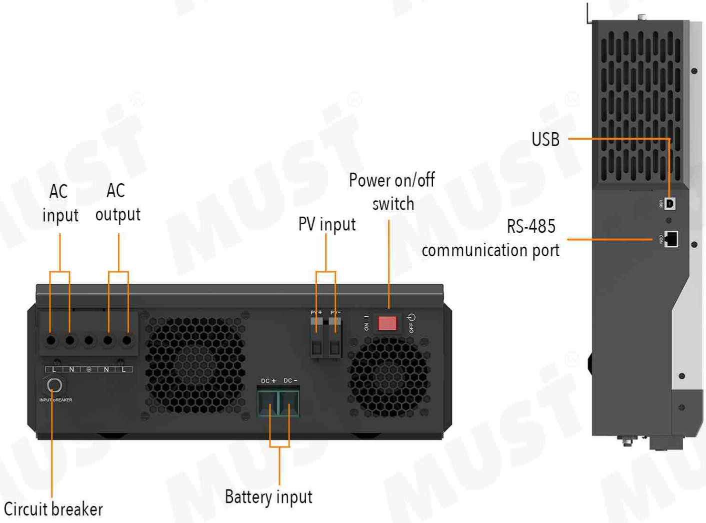
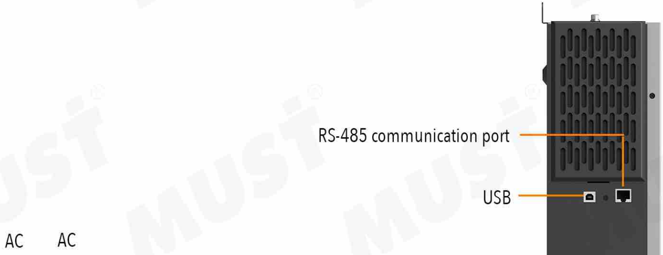

AC input
AC output
PV input
Power on/off switch
USB
RS-485 communication port
L N ⊕ N L
INPUT BREAKER
PV+
PV−
ON
OFF
DC+
DC−
USB
COM
Circuit breaker
Battery input

(2KW-3KW)


RS-485 communication port
USB
AC
AC

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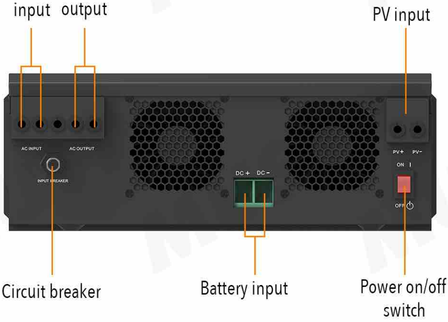
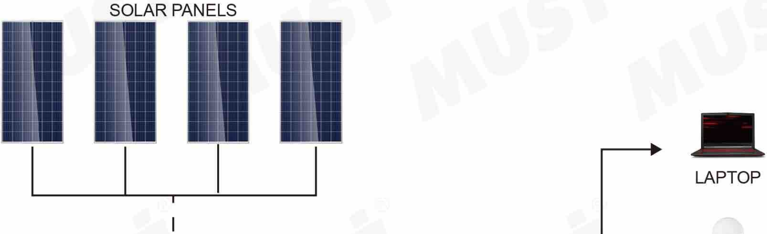

input
output
PV input
AC INPUT
AC OUTPUT
INPUT BREAKER
DC + DC −
PV + PV −
ON
OFF
Circuit breaker
Battery input
Power on/off switch

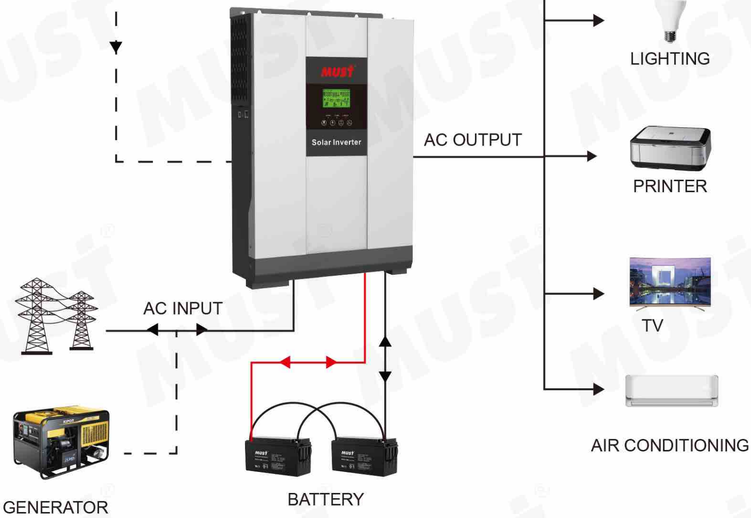
(3KW-5.5KW)

INVERTER SYSTEM CONNECTION

INVERTER + SOLAR PANELS + GRID + APPLICATION LOADS


SOLAR PANELS
LAPTOP

MUST


MUST
Solar Inverter
LIGHTING
AC OUTPUT
PRINTER
AC INPUT
TV
AIR CONDITIONING
GENERATOR
BATTERY

PRODUCT PARAMETERS

MAKE SURE EACH PARAMETER IS TRUE

Learn more about the product

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MODEL		PV18-2024 VHM	PV18-3024 VHM	PV18-3048 VHM	PV18-4048 VHM	PV18-5048 VHM	PV18-5548 VHM
Nominal Battery System Voltage		24VDC		48VDC			
INVERTER OUTPUT	Rated Power	2000W	3000W	3000W	4000W	5000W	5500W
	Surge Power	4000W	6000W	6000W	8000W	10000W	11000W
	Waveform	Pure Sine Wave					
	AC Voltage Regulation (Batt.Mode)	(220VAC~240VAC)±5%					
	Inverter Efficiency(Peak)	93%					
	Transfer Time	10ms (For Personal Computers) 20ms (For Home Appliance)					
AC INPUT	Voltage	230VAC					
	Selectable Voltage Range	170~280VAC(For pensonal computer) \ 90~280VAC(For Home Appliance) \ 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	1440W/1920W		2880W/3840W			
	Maximum Solar Charge Current	60A/80A					
	Maximum Effciency	98%					
	Maximum AC Charge Current	20A/30A		60A			
	Maximum Charge Current	80A		120A/140A			
MECHANICAL SPECIFICATIONS	Machine Dimensions(W*H*D)(mm)	272*355*100		297.5*468*125			
	Package Dimensions(W*H*D)(mm)	540*395*241		638*395*241			
	Net Weight(kg)	10	11	13.3			
	Gross Weight(kg)	11.7	12	16.4			
OTHER	Humidity	5% to 95% Relatiy Humidity (Non-condensing)					
	Operating Temperature	0°C ~55°C					
	Storage Temperature	-15°C ~60°C					

Size

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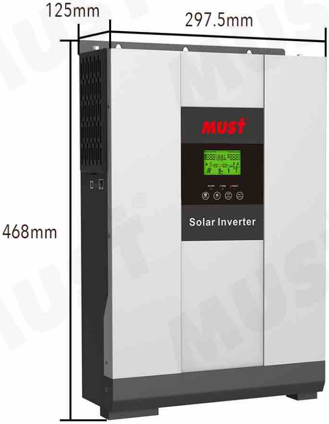
125mm
297.5mm
468mm
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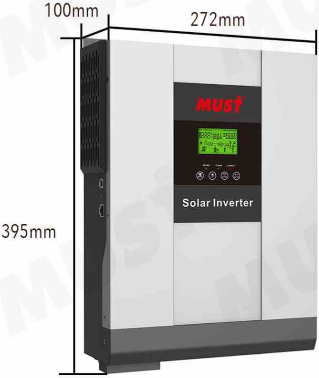
Solar Inverter

(3-5KW)


100mm
272mm
395mm
MUST
Solar Inverter

(2-3KW)

Package

User Manual
USER'S MANUAL
HYBRID SOLAR INVERTER
MPPT 1KVA-5KVA
Parallel communication cable
Monitor software
comunication cable
MUST
USER'S MANUAL
Parallel Installation Guide
Warranty registration card

Parallel Manual
Solar power monitor software
Warranty card

COLOR BOX DIMENSION	
2KW-3KW：540*395*241MM	4KW-5.5KW：638*295*241MM

LOADING		
20GP	40GP	40HQ
450pcs / 500pcs	900pcs / 1000pcs	1100pcs / 1300pcs

MUST
Solar Inverter
Green Energy Advocates
USER'S MANUAL

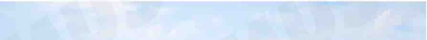
Packaging

Applicable appliances

ELECTRONIC PRODUCT	APPLIANCE	ELECTRONIC PRODUCT	APPLIANCE	ELECTRONIC PRODUCT	APPLIANCE
LED LIGHT	✓	**WASHING MACHINE**	✓	**REFRIGERATOR**	✓
INCANDESCENT LAMP	✓	**HAND MILL**	✓	**AIR-CONDITIONING FAN**	✓
FAN	✓	**HAND DRILL**	✓	**DRYER**	✓
DESKTOP PC	✓	**IMPACT DRILL**	✓	**PROJECTOR**	✓

PRACTICAL APPLICATION

APPLICABLE PLACE



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USE IN HOME SOLAR SYSTEM

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USE IN RESTAURANT POWER SYSTEMS

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SHENZHEN MUST ENERGY TECHNOLOGY CO.,LTD.