


Low Frequency Solar Inverter/Charger

PV3000 VHM Series (1KW-6KW)



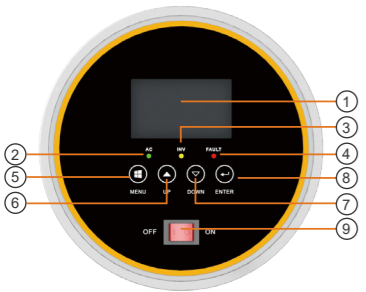
Features

- Pure sine wave output
- Friendly user interface
- 3 Steps charging
- MFD (multi-function display)
- Overload and short-circuit protection
- Set charging voltage/charging current
- Battery low voltage shutdown point can be set to 10/10.5/11V
- Power-save mode
- Set utility priority \battery priority
- Set utility input wide/narrow voltage range
- Inverter voltage can be set to 220V/230V/240V
- Inverter frequency can be set to 50Hz/60Hz
- Set utility charging on/off switch
- Inbuilt 80A MPPT Solar Charge Controller

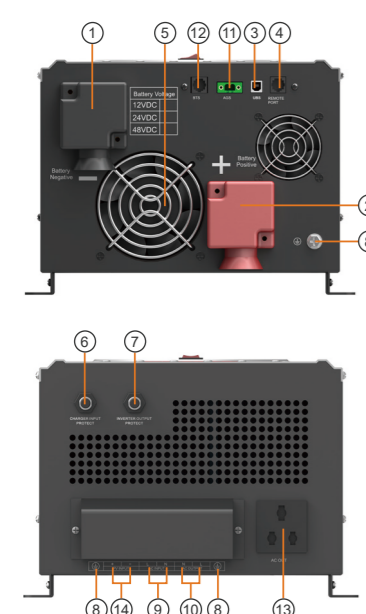
Introduction

PV3000 VHM series is very economical pure sine wave solar inverter, Inbuilt with 80A MPPT charger; Solar/AC priority is configurable, when setting solar priority, solar will charge batteries as first priority, and AC can also charge batteries when solar charger current is too lower, in this way system charge is optimized best. it enables inverter to operate with all kinds of home appliances.

Back panel printing description

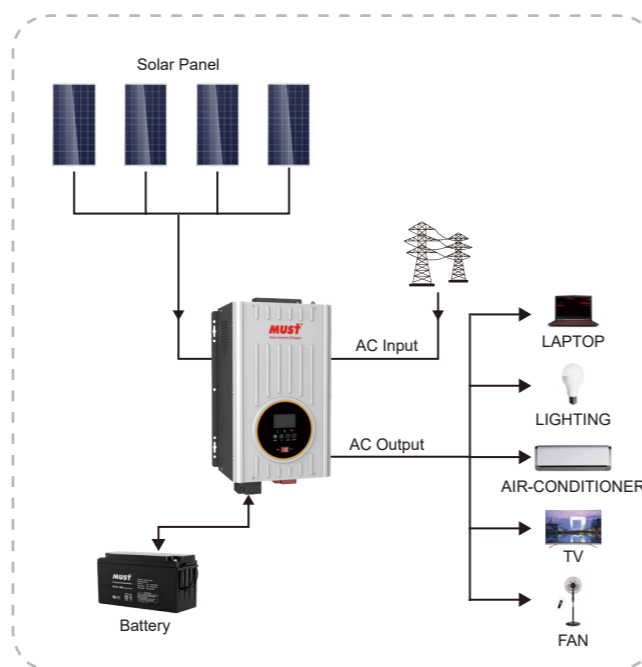


1. LCD display
2. AC LED
3. INV LED
4. Fault
5. Menu
6. UP
7. Down
8. Enter
9. Switch ON/OFF



1. BAT -
2. BAT +
3. USB
4. Remote port
5. FAN
6. Charger input protect
7. Inverter output protect
8. GND
9. AC input
10. AC output
11. AGS
12. BTS
13. AC Output 10A(MAX)
14. PV input

Solar system connection



Specification

MODEL	PV30-1KW VHM	PV30-1.5KW VHM	PV30-2KW VHM	PV30-3KW VHM	PV30-4KW VHM	PV30-5KW VHM	PV30-6KW VHM						
Nominal Battery System Voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC	24VDC	48VDC	48VDC	48VDC	
INVERTER OUTPUT	Rated Power	1 KW	1.5 KW	2 KW	3 KW	4 KW	5 KW	6 KW					
	Surge Rating	3000VA	4500VA	6000VA	9000VA	12000VA	15000VA	18000VA					
	Capable Of Starting Electric Motor	1HP	1HP	1HP	2HP		3HP						
	Waveform	Pure sine wave \ same as input (bypass mode)											
	Nominal Output Voltage RMS	220V \ 230V \ 240VAC (±10% RMS)											
	Output Frequency	50Hz \ 60Hz ±0.3Hz											
	Inverter Efficiency (Peak)	>88%											
	Line Mode Efficiency	>95%											
	Power Factor	1.0											
	Typical Transfer Time	10ms(max)											
AC INPUT	Voltage	230VAC											
	Selectable Voltage Range	96~132VAC 155~280VAC(For personal computers)											
	Frequency Range	50Hz \ 60Hz(Auto sensing) 40~80Hz											
BATTERY	Minimum Start Voltage	(10V \ 10.5V \ 11V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	Low Battery Alarm	(10V \ 10.5V \ 11V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	Low Battery Cut Off	10V \ 10.5V \ 11V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	High Voltage Alarm	(13.8-14.5V)+1V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	High Battery Voltage Recover	(13.8-14.5V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	Idle Consumption-Search Mode	Load ≤50±20W(120V)/100±20W(220V)											
CHARGER	Output Voltage	Depends on battery type											
	Charge AC Input Breaker Rating	230V	1-1.5K/10A				2-3K/30A				4-6K/40A		
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)											
	Maximum Charge Current	30A	20A	45A	25A	60A	30A	40A	20A	60A	30A	35A	40A
BYPASS & PROTECTION	Input Voltage Waveform	Sine wave (grid or generator)											
	Nominal Input Frequency	50Hz or 60Hz											
	Overload Protection (SMPS Load)	Circuit breaker											
	Output Short Circuit Protection	Circuit breaker											
	Bypass Breaker Rating	230V	1-3K/30A				4-6K/40A						
Max Bypass Current	30Amp												
SOLAR CHARGER	Maximum PV Array Power	1250W	2500W	1250W	2500W	1250W	2500W	2500W	5000W	2500W	5000W	5000W	5000W
	Maximum PV Charge Current	80A±4A											
	DC Voltage	12V \ 24V auto work					24V \ 48V auto work						
	MPPT Range @ Operating Voltage	16~100VDC @ 12V/32~145VDC @ 24V					32~145VDC @ 24V/64~145VDC @ 48V						
	Maximum PV Array Open Circuit Voltage	145VDC											
	Standby Power Consumption	<2W											
MECHANICAL SPECIFICATIONS	Mounting	Wall Mount											
	Dimensions (W*H*D)	423*247*197mm					597*247*197mm						
	Net Weight (Solar CHG)(kg)	17.2	17.7	21.8	20.7	25.2	25.5	38.9	36.5	45.7	45.7		
	Shipping Dimensions (W*H*D)	585*387*322mm					758*387*322mm						
	Shipping Weight (Solar CHG)(kg)	20	20.7	24.8	23.5	28.2	28.2	43	40.7	50	50		
OTHER	Operation Temperature Range	0°C to 40°C											
	Storage Temperature	-15°C to 60°C											
	Audible Noise	60dB MAX											
	Display	LED+LCD											
	Standard Warranty	1 year											