

Low Frequency Solar Inverter

PV3000 LVHM Series (AC120V: 1KW-6KW)



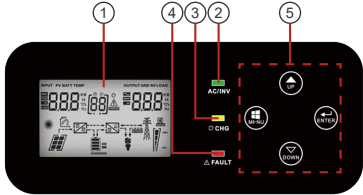
Features

- 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 range
- Inverter voltage can be set to 120V:110V/115V/120V
- Inverter frequency can be set to 50/60Hz
- Set utility charging on/off switch
- 80A MPPT charger

Introduction

PV3000 LVHM series is very economical pure sine wave solar inverter, AC voltage 110V/120V, AC charger inbuilt, from 20A to 60A; MPPT solar charger 80A inbuilt; 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 not enough, it enables inverter to operate with all kinds of home appliances, widely selling to Latin America.

Back panel printing description



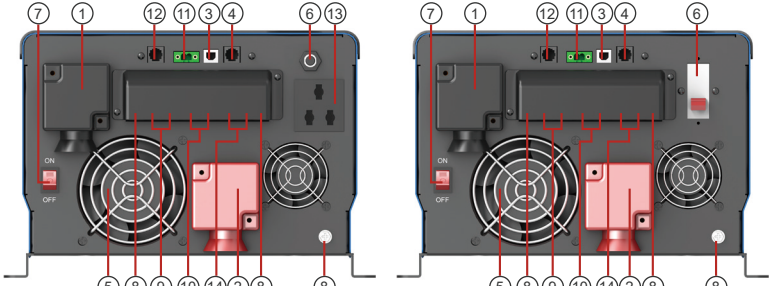
1. LCD Display

2. Status Indicator

3. Charging Indicator

4. Fault Indicator

5. Function Buttons



[PV3000 LVHM 1-3K]

[PV3000 LVHM 4-6K]

1. BAT -

2. BAT +

3. USB

4. Remote port

5. FAN

6. Charger input protect

7. Power on/off switch
8. GND

9. AC input

10.AC output

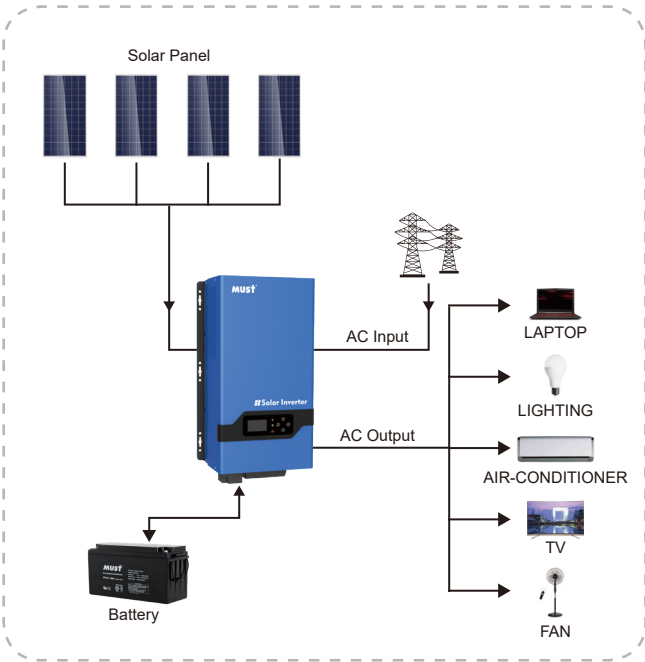
11.AGS

12.BTS

13.AC Output 10A(MAX)

14.PV input

Solar system connection



Specification

MODEL			PV30-1KW LVHM		PV30-1.5KW LVHM		PV30-2KW LVHM		PV30-3KW LVHM		PV30-4KW LVHM		PV30-5KW LVHM		PV30-6KW LVHM					
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		1.5HP		1.5HP		2HP		3HP							
	Waveform		Pure sine wave / same as input (bypass mode)																	
	Nominal Output Voltage RMS		110V / 115V / 120VAC(±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		110/120VAC																	
	Selectable Voltage Range		95~135VAC (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)																	
CHARGER	Output Voltage		Depends on battery type																	
	Charge AC Input Breaker Rating	120V	1K/12A		1.5K/16A		2K/30A		3K/40A		4-6K/63A									
	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	120V	1K/16A		1.5K/20A		2K/30A		3K/40A		4-6K/63A									
	Max Bypass Current		30Amp																	
SOLAR CHARGER	Maximum PV Array Power		1250W	2500W	1250W	2500W	1250W	2500W	2500W	5000W	2500W	5000W	5000W	5000W	5000W					
	Maximum PV Charge Current		80A±4A																	
	DC Voltage		12V / 24V auto work										24V / 48V auto work							
	MPPT Range @ Operating Voltage		16~95VDC @ 12V / 30~130VDC @ 24V							30~130VDC @ 24V / 60~130VDC @48V				60~130VDC @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		42.5	
	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		45	
OTHER	Operation Temperature Range		0℃ to 40℃																	
	Storage Temperature		-15℃ to 60℃																	
	Audible Noise		60dB MAX																	
	Display		LED+LCD																	
	Standard Warranty		1 year																	

The technical specifications of this document are subject to change without any notice