


**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

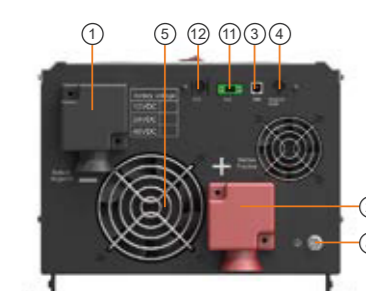
**Introduction**

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.

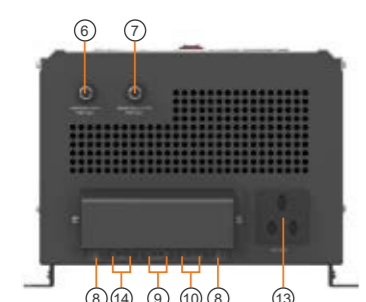
**Back panel printing description**



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

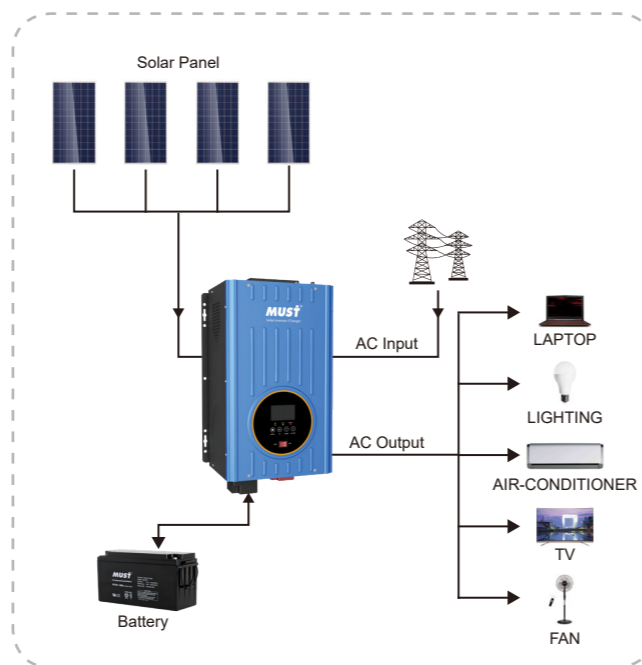


1. BAT -
2. BAT +
3. USB
4. Remote port
5. FAN
6. Charger input protect
7. Inverter output protect
8. GND



6. AGS
7. BTS
8. AC input
9. AC output
10. AC output
11. AC output
12. AC output
13. AC Output 10A(MAX)
14. PV input

**Solar system connection**



**Specification**

MODEL		P27141	P27142
Nominal Battery System Voltage		24VDC	24VDC
INVERTER OUTPUT	Rated Power	2 KW	3 KW
	Surge Rating	6000VA	9000VA
	Capable Of Starting Electric Motor	1.5HP	1.5HP
	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	2K/30A      3K/40A
Overcharge Protection S.D.		15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)	
Maximum Charge Current		30A	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	2K/30A      3K/40A
	Max Bypass Current	30Amp	
	SOLAR CHARGER	Maximum PV Array Power	2500W
Maximum PV Charge Current		80A±4A	
DC Voltage		12V / 24V auto work	
MPPT Range @ Operating Voltage		16~95VDC @ 12V / 30~130VDC @ 24V	30~130VDC @ 24V / 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	
	Net Weight (Solar CHG)(kg)	20.7	25.2
	Shipping Dimensions (W*H*D)	585*387*322mm	
	Shipping Weight (Solar CHG)(kg)	23.5	28.2
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	