

Pure Sine Wave Solar Inverter

PV5000 Series (3KW-5KW)



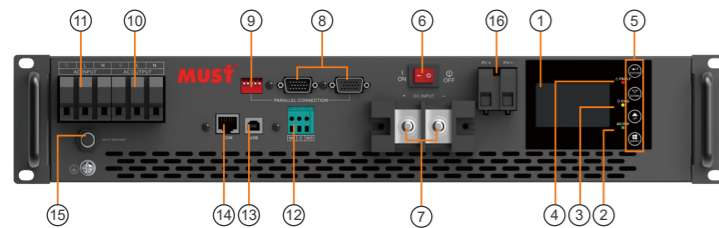
Features

- Pure sine wave inverter
- 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
- Built-in MPPT solar charge controller 80A

Introduction

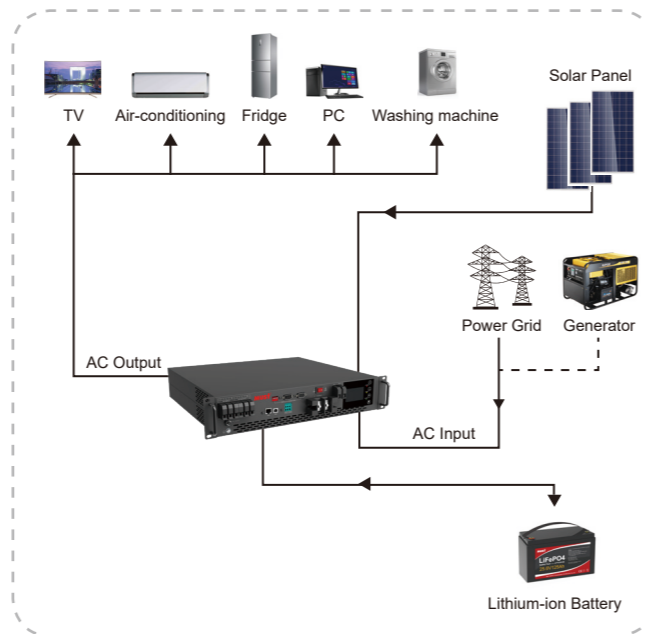
This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Back panel printing description



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. Battery input
8. Parallel communication port (only for parallel mode)
9. Parallel switch
10. AC output
11. AC input
12. Dry contact
13. USB
14. RS485 communication port
15. Circuit breaker
16. PV Input

Solar system connection



Specification

MODEL		PV50-3K	PV50-4K	PV50-5K
Nominal Battery System Voltage		48V		
INVERTER OUTPUT	Rated Output Power	3KW	4KW	5KW
	Surge Power	6KW	8KW	10KW
	Waveform	Pure Sine Wave		
	Power factor	1		
	Output Voltage Regulation	230Vac±5%		
	Inverter Efficiency(Peak)	90%		
	Transfer Time	10ms typical (UPS / VDE4105) 20ms typical (APL)		
	AC INPUT	Nominal Input Voltage	230VAC	
Selectable voltage range		170~280VAC (UPS) , 90~280VAC (APL) , 184~253VAC(VDE4105)		
Input Voltage Waveform		Sinusoidal (utility or generator)		
Frequency Range		50Hz / 60Hz		
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	14VDC		
	MPPT Range @ Operating Voltage	60~163VDC		
	Standby Power Consumption	2W		
	Maximum PV Array Power	4000W		
	Maximum PV Charge Current:	80A		
	Maximum Efficiency	98%		
	Maximum AC Charge Current	60A		
MECHANICAL SPECIFICATIONS	Maximum Charge Current(PC+AC)	80A		
	Dimension (D*W*H), mm	400 x 468 x 86.3		
OTHER	Net Weight (kg)	10.0		
	Safety Certification	CE		
	Operating Temperature Range	-10°C to 40°C		
Storage temperature	-15°C~ 60°C			