MUST®
Solar Power System

PURE SINE WAVE SOLAR INVERTER

PV5000 PRO Series

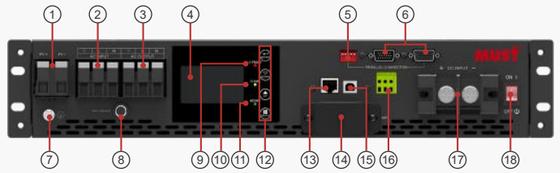
5.2KW | 450V | 100A MPPT

PV5000 PRO is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. PV5000 PRO Series can run without battery.
The Maximum PV array open circuit voltage can reach 450V and MPPT voltage is 150~430Vdc, which Can help customers make full use of solar energy.



- 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
- Parallel operation with up to 3 units
- WIFI remote monitoring (optional)

Back panel description



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

Solar system connection



MODEL	PV50-5248 PRO
Nominal Battery System Voltage	48VDC
INVERTER OUTPUT	
Rated Power	5200VA / 5200W
Surge Power	10400W
Waveform	Pure sine wave
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)
Inverter Efficiency(Peak)	90%
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)
AC INPUT	
Voltage	230VAC±5%
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)
Frequency Range	50Hz / 60Hz(Auto sensing)
BATTERY	
Normal voltage	48VDC
Floating Charge Voltage	54.8VDC
Overcharge Protection	60VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	450VDC
Maximum PV input voltage	27A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)
Maximum PV Array Power	6000W
PV Array MPPT Voltage Range	150~430 VDC
Maximum Solar Charge Current	100A
Maximum AC Charge Current	80A
Maximum Charge Current	100A
MECHANICAL SPECIFICATIONS	
Machine Dimension (W*H*D)	400*468*86.3mm
Package Dimension (W*H*D)	/
N.W (kg)	14.4kg
G.W (kg	/
OTHER	
Parallel operation	3 units
Humidity	5% to 95% Relative humidity (Non-condensing)
Operating Temperature	0°C~50°C
Storage Temperature	-25°C ~60°C
CERTIFICATION & STANDARDS	
CE/IEC	