


Pure Sine wave High Frequency solar Inverter(450V)

PH1800 PRO Series (3KW, 5.2KW)



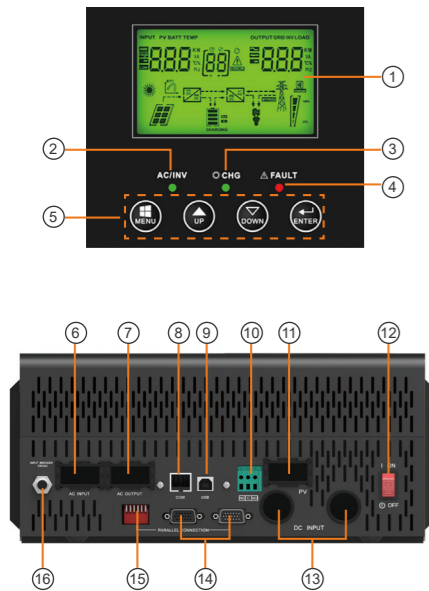
Features

- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT 80A solar charge controller
- MAX PV Array Open Circuit Voltage: 450V
- Can provide the power to the load without battery
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI remote monitoring (optional)
- Compatible to generator
- Can Run Without Battery

Introduction

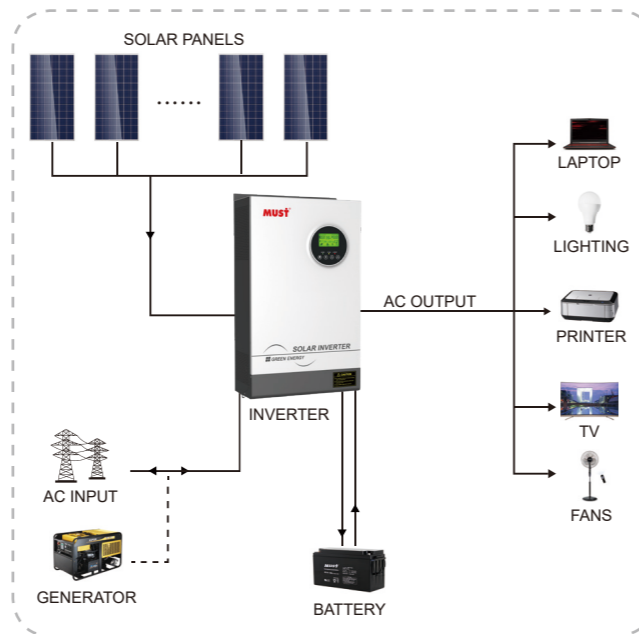
PH1800 PRO is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. PH1800 PRO Series can run without battery. The Maximum PV array open circuit voltage can reach 450V and MPP voltage is 150~450V, which can help customers make full use of solar energy.

Back panel printing description



- | | |
|------------------------------|---------------------------------|
| 1. LCD Display | 9. USB |
| 2. Status Indicator | 10. Dry Contact |
| 3. Charging Indicator | 11. PV Input |
| 4. Fault Indicator | 12. Power On/Off Switch |
| 5. Function Buttons | 13. Battery Input |
| 6. AC Input | 14. Parallel communication port |
| 7. AC Output | 15. Parallel switch |
| 8. RS-485 Communication port | 16. Circuit breaker |

Solar system connection



Specification

Model	PH18-3024 PRO	PH18-5248 PRO
Nominal Battery System Voltage	24VDC	48VDC
INVERTER OUTPUT		
Rated Power	3000VA / 3000W	5200VA/5200W
Surge Power	6KW	10KW
Waveform	Pure sine wave	
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)	
Inverter Efficiency(Peak)	90%~93%	
Transfer Time	10ms (For personal computers) 20ms (For home appliance)	
AC INPUT		
Voltage	230VAC±5%	
Selectable Voltage Range	170~280VAC(For personal computer) \ 90~280VAC(For home appliances)	
Frequency Range	50Hz/60Hz(Auto sensing)	
BATTERY		
Normal voltage	24VDC	48VDC
Floating Charge Voltage	27.4VDC	54.8VDC
Overcharge Protection	30VDC	60VDC
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Open Circuit Voltage	450VDC	
Maximum PV Array Power	5000W	
PV Array MPPT Voltage Range	150~450 VDC	
Maximum Solar Charge Current	80Amp	
Maximum AC Charge Current	60Amp	
Maximum Charge Current	140Amp	
MECHANICAL SPECIFICATIONS		
Machine Dimensions (W*H*D)(mm)	289*414*124.5	330*488*119
Package Dimensions (W*H*D)(mm)	393*488*251	396*638*241
Net Weight(kg)	8	14
Gross Weight(kg)	9.5	16.4
OTHER		
Humidity	5% to 95% Relative humidity (Non-condensing)	
Operating Temperature	-10°C ~50°C	
Storage Temperature	-15°C ~60°C	