

# Pure Sine wave High Frequency solar Inverter(450V)

## PH1800 PRO Series (3KW-5.5KW)



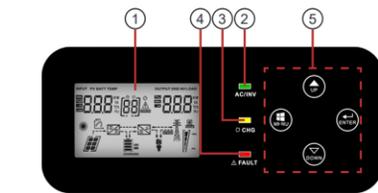
### Features

- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- 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
- WIFI remote monitoring (optional)
- Parallel operation with up to 3 units

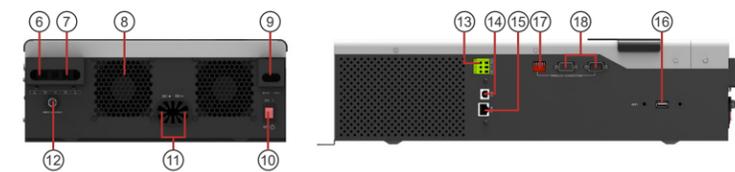
### Introduction

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 MPPT voltage is 150~430V, which can help customers make full use of solar energy.

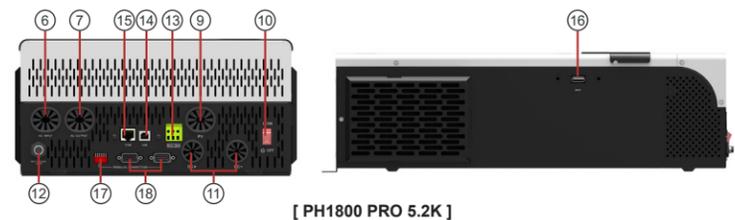
### Back panel printing description



1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons



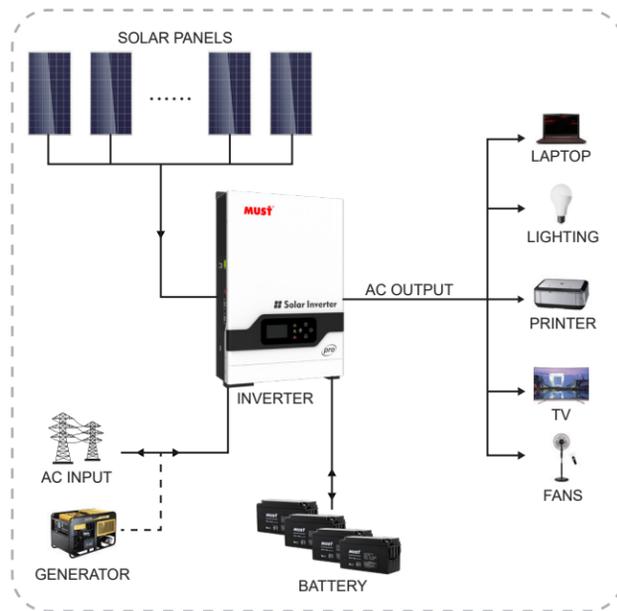
[ PH1800 PRO 3K ]



[ PH1800 PRO 5.2K ]

- |                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| 6. AC Input             | 13. Dry Contact                                           |
| 7. AC Output            | 14. USB                                                   |
| 8. FAN                  | 15. RS-485 Communication port                             |
| 9. PV Input             | 16. USB WiFi                                              |
| 10. Power On/Off Switch | 17. Parallel switch (only for parallel model)             |
| 11. Battery Input       | 18. Parallel communication port (only for parallel model) |
| 12. Circuit breaker     |                                                           |

### Solar system connection



### Specification

Model	PH18-3024 PRO	PH18-3524 PRO	PH18-5248 PRO	PH18-5548 PRO		
Nominal Battery System Voltage	24VDC		48VDC			
<b>INVERTER OUTPUT</b>						
Rated Power	3000VA / 3000W	3500VA / 3500W	5200VA / 5200W	5500VA / 5500W		
Surge Power	6000W	7000W	10400W	11000W		
Waveform	Pure sine wave					
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)					
Inverter Efficiency(Peak)	90%~93%					
Transfer Time	10ms (UPS / VDE4105) 20ms (APL)					
<b>AC INPUT</b>						
Voltage	230VAC±5%					
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL)					
Frequency Range	50Hz/60Hz(Auto sensing)					
<b>BATTERY</b>						
Normal voltage	24VDC		48VDC			
Floating Charge Voltage	27.4VDC		54.8VDC			
Overcharge Protection	30VDC		60VDC			
<b>SOLAR CHARGER &amp; AC CHARGER</b>						
Maximum PV Array Open Circuit Voltage	450VDC					
Maximum PV Array Power	4000W	4000W	5000W	6000W		
PV Array MPPT Voltage Range	150~430 VDC					
Maximum Solar Charge Current	80A	100A	100A	80A	100A	120A
Maximum AC Charge Current	60A	80A	80A	60A	80A	100A
Maximum Charge Current	80A	100A	100A	80A	100A	120A
<b>MECHANICAL SPECIFICATIONS</b>						
Machine Dimensions (W*H*D)(mm)	322*486*134	322*486*134	309*505*147	309*505*147		
Package Dimensions (W*H*D)(mm)	426*560*260.5	426*560*260.5	375*655*269	375*655*269		
Net Weight(kg)	8	8	14	14		
Gross Weight(kg)	9.5	9.5	16.4	16.4		
<b>OTHER</b>						
Humidity	5% to 95% Relative humidity (Non-condensing)					
Operating Temperature	0°C ~50°C					
Storage Temperature	-15°C ~60°C					