


# High Frequency On/Off Hybrid Solar Inverter

## PH1800 Plus Series (2KW-5.5KW)



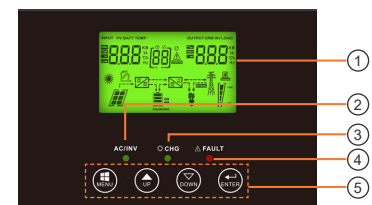
### Features

- Rated Power 2KW-5.5KW
- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Multiple communication for USB, RS-485, CAN
- Monitoring software & Wifi Kit for real-time status display and control
- Support parallel operation up to 3 units (available for 3KW-5.5KW 48V)

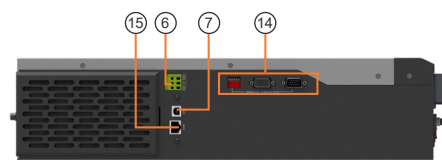
### Introduction

PH1800 Plus series hybrid solar inverter, it can realize self-consumption and feed-in to the grid from solar energy with best solution according to your setting. During the daytime solar power can run your home appliances and if there is extra solar power it will feed-in to the grid or you can choose to save them on the battery to backup when power failure or nighttime.

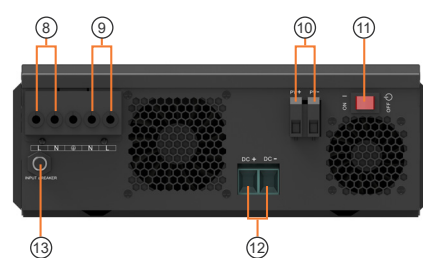
### Back panel printing description



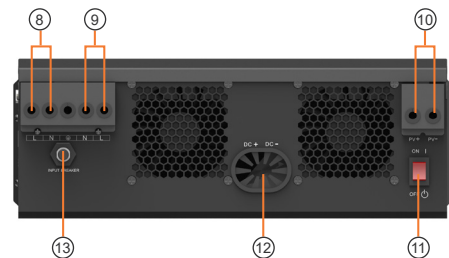
1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons



6. Dry contact
7. USB
8. AC Input
9. AC Output
10. PV Input
11. Power On/Off Switch
12. Battery Input
13. Circuit breaker
14. Parallel connection port
15. RS-485 Communication port

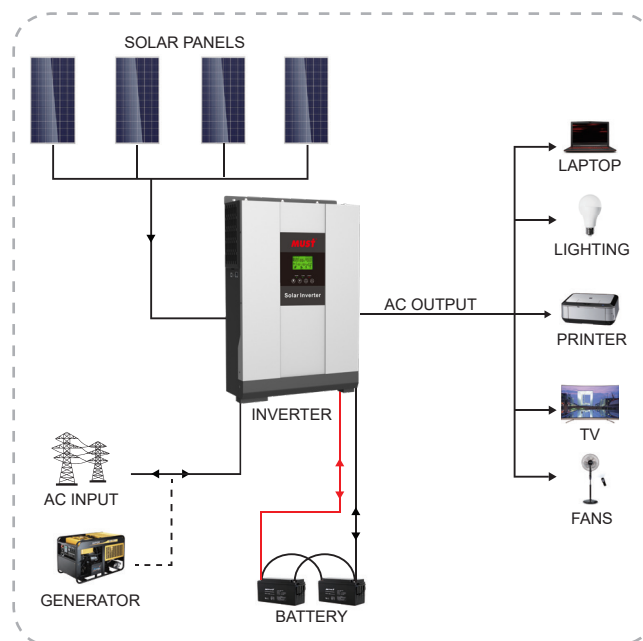


(2KW-3KW)



(3KW-5.5KW)

### Solar system connection



### Specification

MODEL	PH18-2024 Plus	PH18-3024 Plus	PH18-3048 Plus	PH18-4048 Plus	PH18-5048 Plus	PH18-5548 Plus
Nominal Battery System Voltage		24VDC		48VDC		
INVERTER OUTPUT	Rated Power	2000W	3000W	3000W	4000W	5500W
	Surge Power	4000W	6000W	6000W	8000W	11000W
	Waveform	Pure Sine Wave				
	AC Voltage Regulation (Batt.Mode)	220VAC~240VAC(setting)				
	Electric Current	8.7A	13A	17.4A	21.7A	23.9A
	Inverter Efficiency(Peak)	93%				
	Transfer Time	10ms(For For Personal Computers) 20ms( For Other Home Appliance)				
	AC INPUT	Voltage	230VAC			
Selectable Voltage Range		170~280VAC(For Personal Computers), 90~280VAC(For Home Appliances), 184~253VAC(VDE4105)				
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	145VDC				
	PV Array MPPT Voltage Range	30~130VDC	64~130VDC			
	Standby Power Consumption	2W				
	Maximum PV Array Power	2000W	4000W			
	Maximum Solar Charge Current	80A				
	Maximum Efficiency	98%				
	Maximum AC Charge Current	60A				
Maximum Charge Current	140A					
MECHANICAL SPECIFICATIONS	Machine Dimensions (W*H*D)	272*355*100 mm	297.5*468*125mm			
	Net Weight(KG)	7.4	14			
	Package Dimensions(W*H*D)	485*393*251mm	638*395*241mm			
	Gross Weight(KG)	9.5	16.4			
OTHER	Humidity	5% to 95% Relative Humidity (Non-condensing)				
	Operating Temperature	0°C ~55°C				
	Storage Temperature	-15°C ~60°C				