



PH1800 Plus Series On/Off Grid Hybrid Solar Inverter

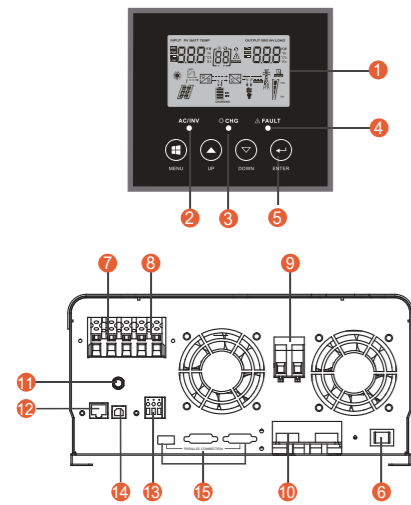
Feature:

- Rated power 1500W to 5000W
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 60A/80A solar charge controller
- New SUB working mode(Solar-Utility-Battery working mode)
- MPPT Efficiency max 98%
- Combining solar system, AC utility, and battery power source to supply continuous power
- Multiple operations: basic Grid-tie, Off-Grid, Grid-Interactive
- Parallel operation with up to 3 units (Available for 4KVA/5KVA only)
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI/ GPRS remote monitoring (optional)
- Compatible to generator

Introduction:

This is a multi-function inverter/charger, combining functions of inverter, MPPT 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.

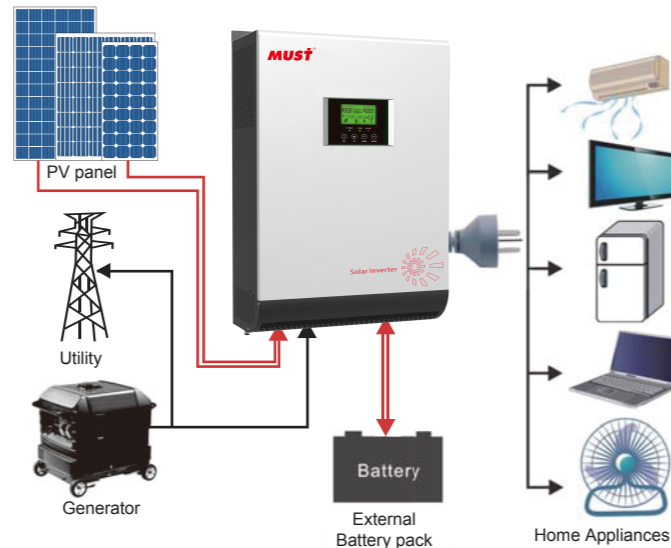
LCD Display Information



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

NOTE: For parallel model installation and operation, please check separate parallel installation guide for the details.

Solar System Connection



Back Panel



Specification

MODEL	PH18-1524 Plus	PH18-2024 Plus	PH18-2524 Plus	PH18-3048 Plus	PH18-4048 Plus	PH18-5048 Plus	
Nominal Battery System Voltage		24VDC			48VDC		
INVERTER OUTPUT	Rated Power	1500W	2000W	2500W	3000W	5000W	
	Surge Power	3000W	4000W	5000W	6000W	10000W	
	Waveform	Pure Sine Wave					
	AC Voltage Regulation (Batt.Mode)	220VAC/230VAC/240VAC±5%					
	Electric Current	3.4A	7.0A	10.5A	13A		
	Output Frequency	50Hz/60Hz Auto Sensing					
	THD (Linear loads)	Off grid ≤2%					
		Grid discharge ≤3%					
		Grid charge ≤3%					
	Inverter Efficiency (Peak)	93%					
Transfer Time	10ms(For PC) 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	27VDC			54VDC		
	Overcharge Protection	31VDC			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					
	Rated Power	1500W/2000W			4000W	4000W	4000W
	Maximum Solar Charge Current	60A/80A			80A	80A	80A
	Maximum Efficiency	98%					
	Maximum AC Charge Current	20A or 30A			60A		
MECHANICAL SPECIFICATIONS	Machine Dimensions (W*H*D)(mm)	272*355*100			297.5*468*125		
	Net Weight (Kg)	7.4			14		
	Package Dimensions(W*H*D)(mm)	485*393*251			638*395*241		
OTHER	Gross Weight (Kg)	9.5			16.4		
	Humidity	5% to 95% Relative Humidity (Non-condensing)					
	Operating Temperature	0°C~55°C					
Storage Temperature	-15°C~60°C						

* Product specifications are subject to change without further notice.

Approximate Back-up Time Table

Model	Load (W)	Backup Time@24V 100Ah(min)	Backup Time@24V 200Ah(min)	Model	Load (W)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)	
1500W	800W	112	269	3000W	300W	847	1694	
	1500W	62	158		1500W	123	315	
2000W	1000W	104	244		3000W	50	123	123
	2000W	41	102	4000W	1000W	208	488	
2500W	800W	112	269		2000W	89	205	205
	1500W	62	158		4000W	38	89	89
	2500W	26	64	5000W	1000W	208	488	
3000W	1000W	208	488		2000W	89	205	205
	3000W	50	123		3000W	50	123	123
	4000W	38	89		4000W	38	89	89
	5000W	21	72	5000W	21	72	72	