


Low Frequency On/Off Grid Hybrid Solar Inverter

PH3000 Series (10-12KW)



Features

- Rated power 10KW to 12KW
- Smart LCD setting(Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 180A solar charge controller
- 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
- Support CAN, RS485 monitoring function

Type of Battery

PH3000 series can be used with lithium battery pack or lead-acid battery, to keep your appliances running for days.



Wall-mounted lithium battery

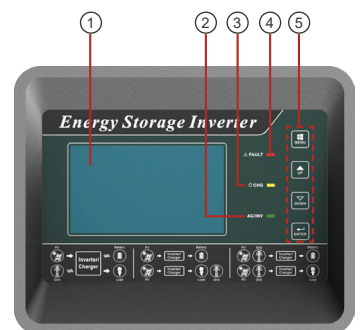


Rack-mounted lithium battery

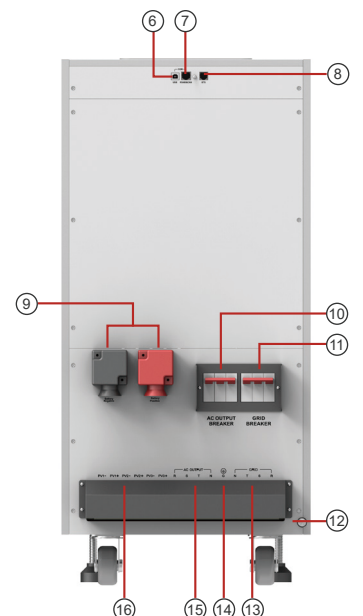
Introduction

This model PH3000 Three-phase is a flexible and intelligent energy storage inverter which utilizes solar power, utility power, and battery power source to supply continuous power. This is a multi-functional hybrid inverter which can power all kinds of appliances in home or office environment, including motor-type appliances such as tube light, fan, refrigerator and air conditioner. The system generates electricity when it has sufficient sunshine, supplying power to your home and feeding any surplus power back to the Grid.

Back panel printing description

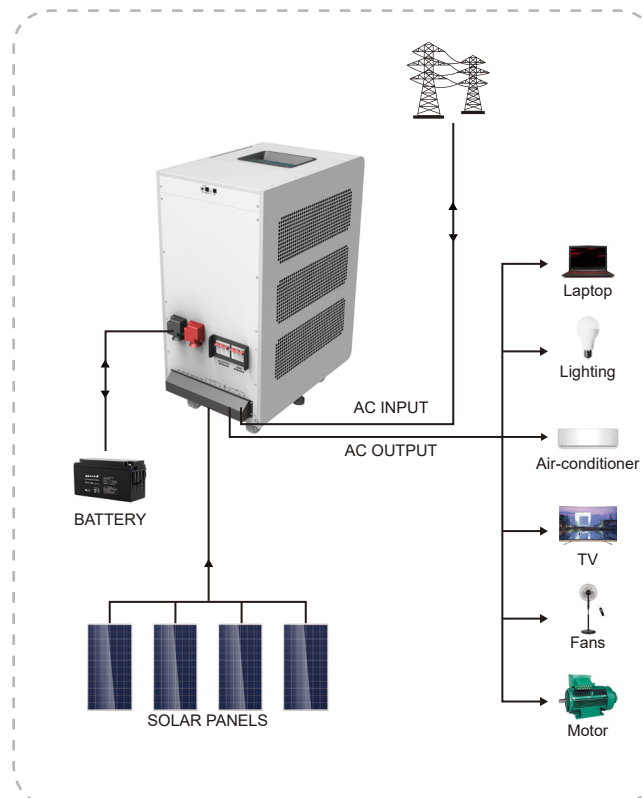


1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons
6. USB communication port
7. CAN/RS485 communication



8. BTS
9. Battery input
10. AC output breaker
11. Grid breaker
12. Grounding
13. Grid
14. Grounding
15. AC output
16. PV input

Solar system connection



Specification

MODEL		PH30-10048-T	PH30-12048-T
Nominal Battery System Voltage		48VDC	
INVERTER OUTPUT	Rated output power	10000W	12000W
	Output wave	Pure sine wave	
	Nominal output voltage	230 VAC (P-N) / 400 VAC (P-P)	
	Nominal output current	14.3A per phase	17.4A per phase
	Nominal output frequency	50 Hz / 60 Hz	
	Rate of wave distortion(THD)(Linearity loads)	Off grid≤2%; Grid discharge ≤3%; Grid charge ≤3%	
	Peak efficiency	≥93%	
Overload capability	100%<load≤110%,30 minutes; 110%<load≤125%,1 minutes; 125%<load≤150%,30 seconds; load<150%,10 seconds; Short circuit,5 seconds		
AC INPUT	AC input maximum current	26.0A per phase	34.8A per phase
	Nominal frequency	50Hz / 60Hz	
	Acceptable input voltage range	Defaults 186Vac ~253Vac per phase; Narrow 174Vac ~272Vac per phase; Wide 95Vac ~272Vac per phase	
BATTERY	Type of Battery	Lithium battery or lead-acid battery	
	Nominal Voltage	48VDC	
	Low Voltage Protection Point	Charger 34.0VDC; Inverter 40.0VDC	
	Absorption Voltage	50.0VDC	
	Refloat Voltage	54.8VDC	
Float Voltage	57.2VDC		
SOLAR CHARGER & AC CHARGER	PV Open Circuit Voltage	145VDC	
	Max Solar Charging Current	60A per channel	
	Max AC Charging Current	60A per phase	80A per phase
	Max Charging Current	120A per phase	140A per phase
MECHANICAL SPECIFICATIONS	Mounting	Vertical	
	Machine Dimension, W*H*D(mm)	392*828*629	
	Package Dimensions (W*H*D)(mm)	513*1031*700	
	Net Weight (kg)	133	140
	Gross Weight (kg)	128	160
OTHER	Communication terminal	RS485 / CAN bus	
	Operation Temperature Range	0°C ~ +50°C	
	Environmental Protection Rating	IP20	
	Ambient humidity	0 -- 90% relative humidity (non-condensing)	
	Altitude	≤2000m	

The technical specifications of this document are subject to change without any notice