

Low Frequency On/Off Grid Hybrid Solar Inverter

PH3000 Series (9-12KW)



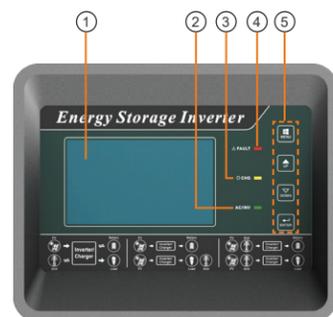
Features

- Rated power 9KW 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

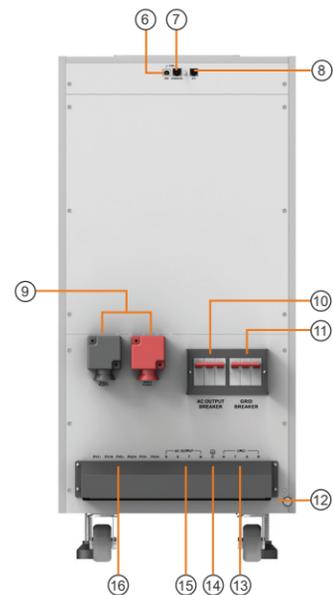
Introduction

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.

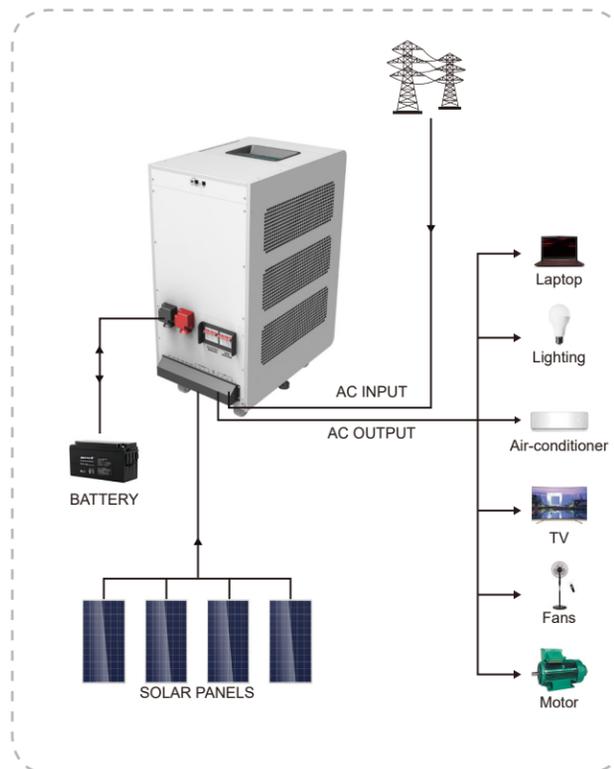
Back panel printing description



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



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

Specification

MODEL		PH30-9048-T	PH30-10048-T	PH30-12048-T
Nominal Battery System Voltage		48VDC		
INVERTER OUTPUT	Rated output power	9000W	10000W	12000W
	Output wave	Pure sine wave		
	Nominal output voltage	230 VAC (P-N) \ 400 VAC (P-P)		
	Nominal output current	13.0A per phase	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%		
AC INPUT	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 maximum current	26.0A per phase		34.8A per phase
	Nominal frequency	50Hz \ 60Hz		
BATTERY	Acceptable input voltage range	Defaults 186Vac ~253Vac per phase;Narrow 174Vac ~272Vac per phase; Wide 95Vac ~272Vac per phase		
	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		
SOLAR CHARGER & AC CHARGER	Refloat Voltage	54.8VDC		
	Float Voltage	57.2VDC		
	PV Open Circuit Voltage	145VDC		
	Max Solar Charging Current	60A per channel		
MECHANICAL SPECIFICATIONS	Max AC Charging Current	60A per phase		80A per phase
	Max Charging Current	120A per phase		140A per phase
	Mounting	Vertical		
OTHER	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		