

ON/OFF Grid High frequency Hybrid Solar Inverter

PH1000 Series (3.6-5KW)



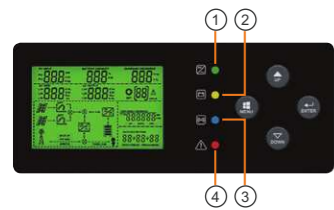
Features

- Wide range of MPPT voltage:120-550V
- Multiple operation modes: Grid-tie,off grid and grid-tie with back up
- Support LCD display&Smart LCD setting
- Available Export control CT sensor function
- Multiple communications:USB,RS485,GPRS and wifi etc.
- Monitoring inverters Freely Via computers or mobile phones
- Full protection function:Over-voltage,over-frequency, over-current, over-temperature,and AC short-circuit automatic protection
- Intelligent BMS battery management function
- Fanless low-noise design.
- IP65 Dust-proof and water-proof

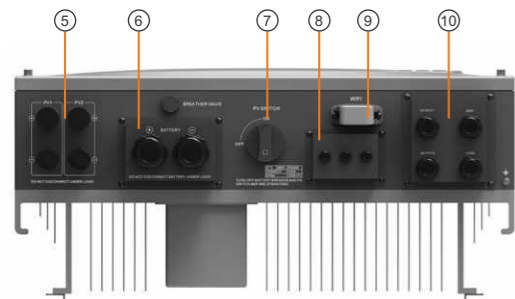
Introduction

This is a flexibly and intelligent energy storage solar inverter with wide range of MPPT Voltage. Combining functions of off grid and on grid. This hybrid solar inverter can power all kinds of appliances in home or office, also can use in power station.

Back panel printing description

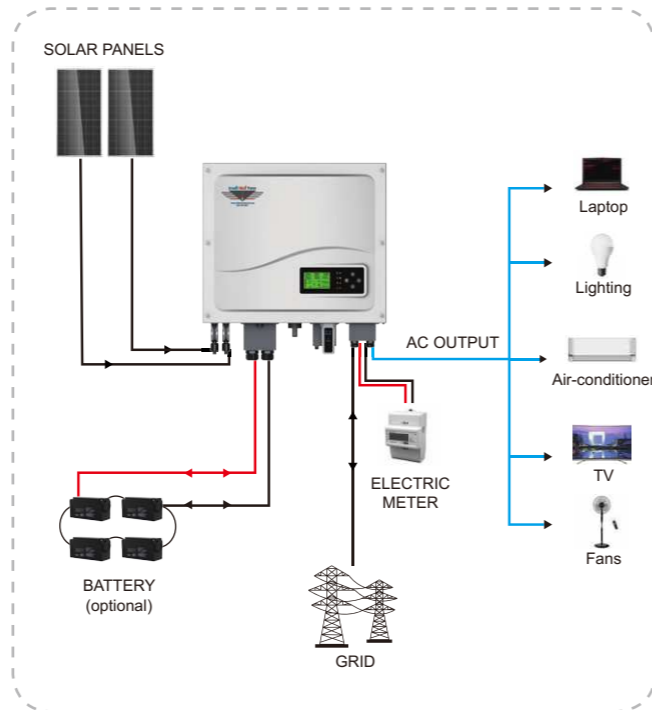


1. The inverter operation status indicator
2. Battery indicator
3. WiFi status indicator
4. Fault indicator



5. PV input terminals
6. Battery input terminals and cover
7. PV input switch
8. BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
9. Wi-Fi comodule
- 10.AC output terminals and cover

Solar system connection



Specification

MODEL	PH10-3648A	PH10-4248A	PH10-4648A	PH10-5048A
RATED POWER(W)	3600	4200	4600	5000
Nominal Battery System Voltage	48	48	48	48
PV INPUT(DC)	Maximum recommended DC power(W)	4100	4800	5300
	Nominal DC operating voltage(V)	360		
	Maximum DC voltage(V)	580		
	MPPT voltage range(V)	120~550		
	Maximum input current(A)	11/11		
	Maximum short circuit current(A)	15/15		
	No.of MPP tracker	2		
	Strings per MPP tracker	1		
INVERTER OUTPUT(AC)	Nominal AC output power(W)	3600	4200	4600
	Nominal output voltage(V);range(V)	220\230\240;180-280		
	AC grid frequency(Hz);range(Hz)	50\60;45~55\55-65		
	Nominal output current(A)	15.7	18.3	20.0
	Maximum output current(A)	16.4	19.1	21.0
	Total harmonic distortion i(THDi)	<3%		
	Power factor at rated power	1		
	Displacement power factor	0.8leading ~ 0.8lagging		
BATTERY MODE OUTPUT(AC)	Output Rated Power	2300		
	Nominal output voltage(V);accuracy range	230±1%		
	Output ferequency(Hz);accuracy range	50/60(optional)±0.2%		
	Output rated current(A)	10		
	Output waveform	Pure sine wave		
	Total harmonic distortion v (linear load)	<3%		
BATTERY & CHARGER	Battery type	Lead-acid battery \ Lithium battery		
	Battery voltage(V)	48		
	Battery voltage range(V)	40~60		
	Charging curve	3-stage adaptive with maintenance		
	Over-current protection / Over-temperature protection	Yes \ Yes		
	Maximum charging/discharging power(W)	2500 2500		
EFFICIENCY	Maximum efficiency	97.3%		
	Euro-efficiency	96.8%		
	MPPT efficiency	99.9%		
PROTECTION DEVICES	DC switch rating for each MPPT	Yes		
	Grid monitoring	Yes		
	Output over current protection	Yes		
	Output overvoltage protection-varistor	Yes		
	Ground fault monitoring	Yes		
	Integrated all-pole sensitive leakage current	Yes		
GENERAL	Dimension(W/H/D)(mm)	480*420*215		
	Net weight (kg)	25	25	27
	DC connection	H4 / MC4		
	AC connection	Terminal Block		
	Display	LED+LCD		
	Communication interfaces	Wi-Fi \ USB \ GPRS \ RS485		
	Ingress protection rating	IP65		
	Humidity	0~95% RH(No condensing)		
	Operating temperature range	-20°C +60°C With derating above 45°C		
	Cooling concept	Natural		
Altitude	<2000m			