

# ON/OFF GRID HYBRID SOLAR INVERTER PH1000 SERIES

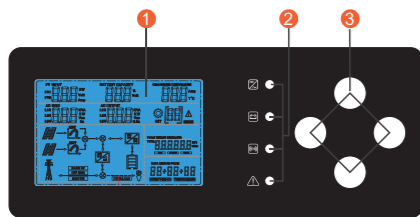


- Wide range of MPPT Voltage:120~550V.
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup .
- Humanistic LCD display and smart LCD setting.
- System can be started by PV, battery and AC mode seperately.
- Fanless low-noise design.
- IP65 Dust-Proof and Water-Proof .
- Intelligent BMS battery management function.

## INTRODUCTION

This 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 Grid.

## LCD DISPLAY INFORMATION

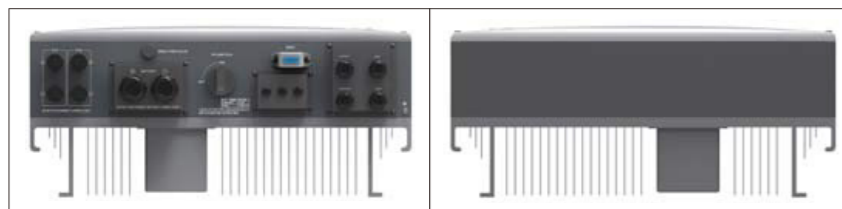


1. LCD display
2. Indicator
3. Function buttons



1. PV input connector
2. Battery connector
3. PV switch
4. Communication connector
5. Wifi connector
6. AC connector

## BACK PANEL



## SPECIFICATION

MODEL		PH10-3648A	PH10-4648A	PH10-5048A
<b>RATED POWER(W)</b>		3600	4600	5000
<b>Default Battery System Voltage(V)</b>		48	48	48
<b>PV INPUT(DC)</b>	Maximum recommended DC power(W)	4200	5300	5750
	Nominal DC operating voltage(V)	360		
	Maximum DC voltage(V)	600		
	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			
<b>INVERTER OUTPUT(AC)</b>	Nominal AC output power(W)	3600	4600	5000
	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	20.0	21.8
	Maximum output current(A)	16.4	21.0	22.8
	Total harmonic distortion i(THDi)	<3%		
	Power factor at rated power	1		
	Displacement power factor	0.8leading~0.8lagging		
	Output Rated power(VA)	2300		
	Nominal output voltage(V);accuracy range	230;±1%		
<b>BATTERY MODE OUTPUT(AC)</b>	Output frequency(Hz);accuracy range	50/60(optional);±0.2%		
	Output rated current(A)	10		
	Output waveform	Pure sine wave		
	Total harmonic distortion v(THDv)	<3%		
	Battery type	Lead-acid battery/Lithium battery		
<b>BATTERY &amp; CHARGER</b>	Battery voltage(V)	48		
	Battery voltage range(V)	40~60		
	Charging curve	3-stage adaptive with maintenance		
	Over-current protection/Over-temperature protection	YES		
	Maximum charging/discharging power(W)	2500/2500		
	Maximum charging/discharging Current(A)	50/50		
<b>Efficiency</b>	Maximum efficiency	97.3%		
	Euro-efficiency	96.8%		
	MPPT efficiency	96.8%	96.8%	99.9%
	Standby losses(W)	<6		
<b>"Protection devices"</b>	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			
<b>General</b>	Dimension(W/H/D)(mm)	480*420*215	480*420*215	480*420*165
	Net weight (kgs)	25	27	27
	DC connection	H4/MC4		
<b>General</b>	AC connection	Screw terminal		
	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		

\* Product specifications are subject to change without further notice.