


# High Frequency On Grid Solar Inverter

## PH5000 Series (2.5-6KW)



### Features

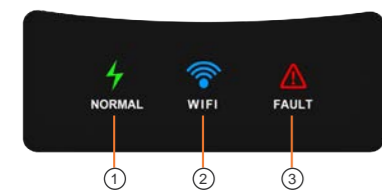
- High Frequency On Grid Solar Inverter
- Pure sine wave output
- Rate power: 2.5-6KW
- MPPT efficiency up to 99.50%
- Multiple communications: USB,WIFI etc
- Monitoring inverters freely via mobile phones APP
- Fanless low-noise design
- IP65 water-proof and dust-proof

### Introduction

PH5000 series PV inverters take full account of the needs of end customers, with excellent performance at the same time, use LED as inverter status display, effectively improve product life. Using DSP digital control, could afford wide grid voltage range, have a full range of protection features; to maximize the benefits at the same time, greatly enhance the reliability of the product.

### Back panel printing description

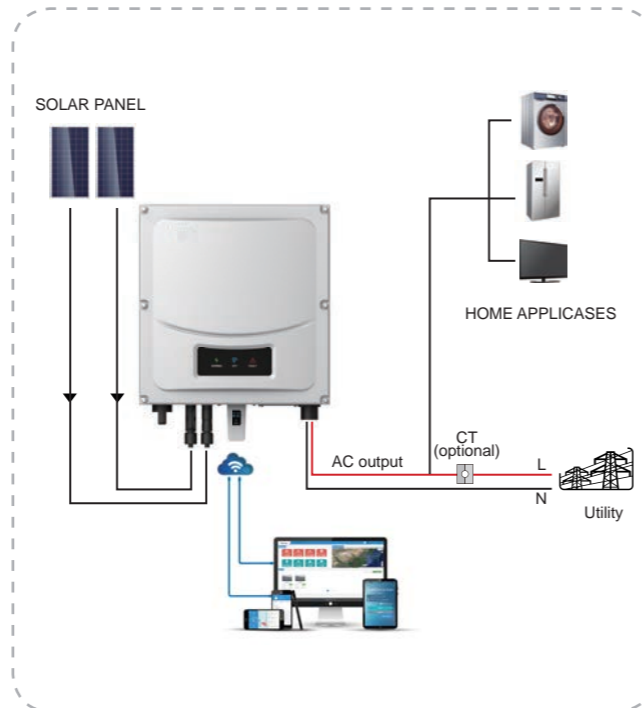
Green LED	Continuous light	Normal status
	Flicker	Waiting status
Blue LED	Flicker	Wifi normal communication
Red LED	Continuous light	Fault status
	Flicker	Program of procedure or give an alarm



1. Operation normal (Green)
2. WIFI communication (Blue)
3. Error display (Red)
4. DC switch
5. PV input
6. WIFI connector
7. PC USB connector
8. AC output



### Solar system connection



## Specification

MODEL		PH50-2500	PH50-3000	PH50-3600M	PH50-4200M	PH50-4600M	PH50-5000M	PH50-6000M	
RATED POWER(W)		2500	3000	3600	4200	4600	5000	6000	
PV INPUT(DC)	Maximum recommended DC power(W)	2875	3450	4100	4800	5300	5750	7000	
	Nominal DC operating voltage(V)	360							
	Maximum DC voltage(V)	550							
	Start voltage(V)	100							
	MPPT voltage range(V)	80~550							
	Maximum input current(A)	11	11	11\11	11\11	11\11	11\11	11\11	
	No.of MPP tracker	1			2				
	Strings per MPP tracker	1							
	GRID OUTPUT(AC)	Nominal AC output power(W)	2500	3000	3600	4200	4600	5000	6000
Maximum AC output power(VA)		2500	3000	3600	4200	4600	5000	6000	
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)		10.9	13	15.7	18.3	20.0	21.8	26.1	
Maximum output current(A)		11.4	13.7	16.4	19.1	21.0	22.8	27.3	
Total harmonic distortion i(THDi)		<3%							
Power factor at rated power		1							
Displacement power factor		0.8leading ~ 0.8lagging							
AC connection		Single phase							
EFFICIENCY		Maximum efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%	97.4%
		Euro-efficiency	96.8%	96.8%	97.0%	97.0%	97.0%	97.0%	97.0%
		MPPT efficiency	99.5%						
	Self-Consumption night(W)	<1							
PROTECTION DEVICES	DC reverse polarity protection	Yes							
	DC switch rating for each MPPT	Yes(opt.)							
	Output over current protection	Yes							
	Output overvoltage protection-varistor	Yes							
	Ground fault monitoring	Yes							
	Grid monitoring	Yes							
	Integrated all-pole sensitive leakage current	Yes							
PHYSICAL	Dimension(W/H/D)(mm)	262*368*155	262*368*155	355*412*153	355*412*153	355*412*173	355*412*173	355*412*201	
	Net weight (kg)	10	10	13.5	13.5	14.5	14.5	16.5	
INTERFACE	DC connection	H4/MC4							
	AC connection	Connector							
	Display	LED							
	Communication interfaces	Wi-Fi \ USB \ GPRS							
ENVIRONMENT	Ingress protection rating	IP65							
	Humidity	0~95% RH (No condensing)							
	Operating temperature range	-25°C ~+60°C With derating above 45°C							
	Cooling concept	Natural							
	Noise emission(typical)[dB]	≤25							
	Altitude	<4000m							
OTHERS	Topology	transformerless							
	Warranty	Standard 5years/10 years(opt.)							
	Certificates and approvals	CE/IEC62109	CE/IEC62109	CE / IEC62109 / CQC					