

# High Frequency On Grid Solar Inverter

## PH5000 Series (2.5-6KW)



### Features

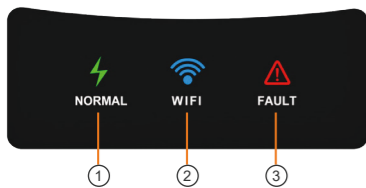
- High Frequency On Grid Solar Inverter
- Rate power: 2.5-6KW
- MPPT efficiency up to 99.50%
- Multiple communications: USB,WIFI etc
- Monitoring inverters freely via mobile phone APP
- Fanless low-noise design
- IP65 water-proof and dust-proof

### 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

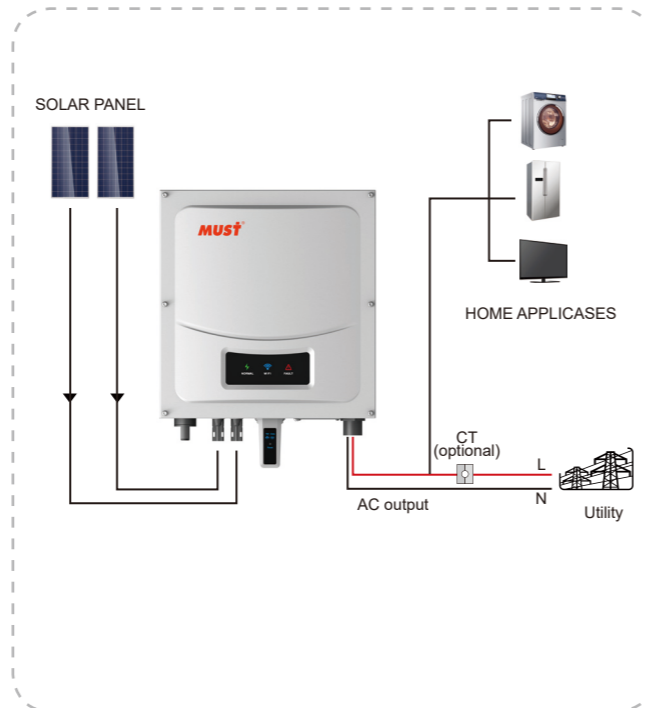
Green LED	Continuous light	Normal status
	Flicker	Waiting status
Blue LED	Flicker	Wifi normal communication
Red LED	Continuous light	Fault status
	Flicker	Program of procedure or give an alarm



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 \ RS-485
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
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.THDi@Full load & THDv <1%							
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%
	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						
	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							0-100%						
	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 \ EN50549-1		CE \ IEC62109 \ CQC \ EN50549-1				