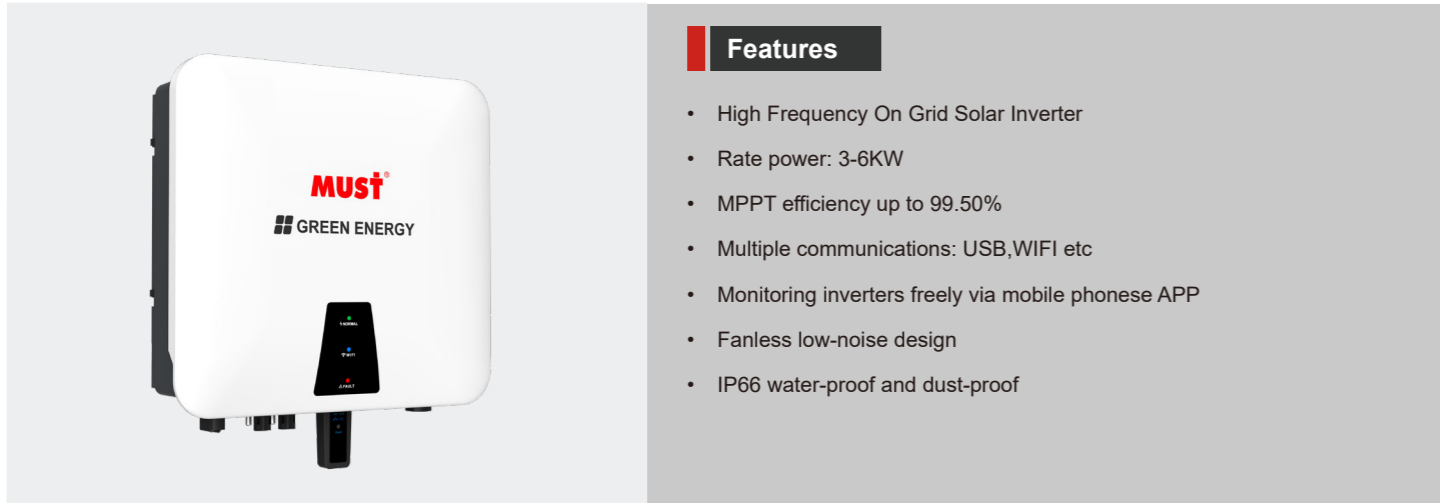


# High Frequency On Grid Solar Inverter

## PH5900 Series (3KW-6KW)



### Features

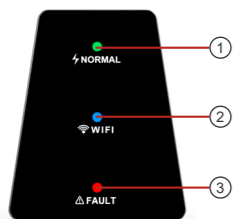
- High Frequency On Grid Solar Inverter
- Rate power: 3-6KW
- MPPT efficiency up to 99.50%
- Multiple communications: USB,WIFI etc
- Monitoring inverters freely via mobile phones APP
- Fanless low-noise design
- IP66 water-proof and dust-proof

### Introduction

PH5900 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.

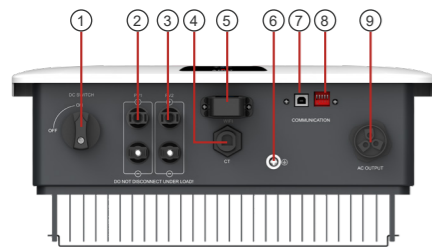
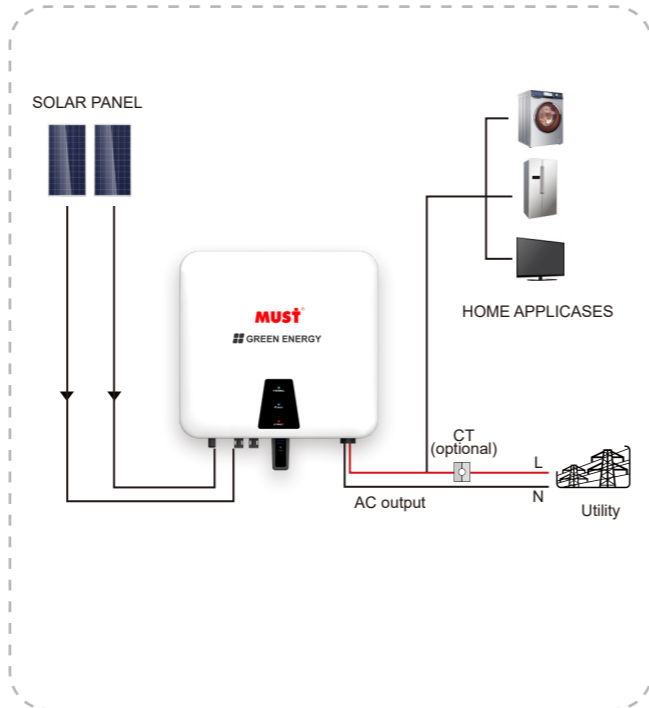
### Back panel printing description

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)

### Solar system connection



1. DC switch
2. PV1 input
3. PV2 input
4. CT port
5. WIFI connector
6. Ground
7. USB connector
8. RS-485 connector
9. AC output

### Specification

MODEL		PH59-3000M	PH59-3600M	PH59-4200M	PH59-4600M	PH59-5000M	PH59-6000M
RATED POWER		3000W	3600W	4200W	4600W	5000W	6000W
PV INPUT(DC)	Maximum recommended DC power	3900W	4700W	5200W	5980W	6500W	7800W
	Nominal DC operating voltage	360V					
	Maximum DC voltage	550V					
	Start voltage	50V					
	MPPT voltage range	40~550V					
	Maximum input current	16A/16A					
	No.of MPP tracker	2/1					
	DC connection	H4/MC4					
GRID OUTPUT(AC)	Nominal AC output power	3000W	3600W	4200W	4600W	5000W	6000W
	Maximum AC output power	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA
	Nominal output voltage; range	220V / 230V / 240V;180-280V					
	AC grid frequency; range	50/60Hz;45~55/55-65Hz					
	Maximum output current	13.6A	16A	19A	20.9A	22.7A	27.2A
	AC nominal voltage	230V					
	AC voltage range	160V-276V					
	Maximum output current	50±5HZ; 60±5HZ					
	AC grid frequency	<3% @Full load & THDI<1%					
	Power factor at rated power	1					
	Displacement power factor	0.8 leading ~ 0.8 lagging					
	AC grid connection type	L+N+PE					
	EFFICIENCY	Maximum efficiency	98.0%	98.0%	98.1%	98.1%	98.2%
Euro-efficiency		96.8%	96.8%	97.0%	97.0%	97.2%	97.2%
MPPT efficiency		99.5%					
Self-Consumption night		<1W					
PROTECTION DEVICES	Output over current protection	Yes					
	Output AC overvoltage protection	Yes					
	DC reverse polarity protection	Yes					
	DC switch	Yes					
	Ground fault monitoring	Yes					
	Integrated all-pole sensitive leakage current monitoring unit	Yes					
PHYSICAL	Machine Dimension (W*H*D)	390*370*170mm					
	G.W	11kg					
INTERFACE	DC connection	H4/MC4					
	AC connection	Connector					
	Display	LED					
	Communication interfaces	USB/WI-FI/RS485/GPRS					
ENVIRONMENT	Ingress protection rating	IP66					
	Humidity	0-100%					
	Operating temperature range	-25°C ~+60°C With derating above 45°C					
	Cooling concept	Natural					
	Noise emission(typical)[dB]	≤35dB(A)					
	Self-consumption night	<1W					
	Topology	Transformerless					
	Altitude	4000m					
OTHERS	Topology	transformerless					
	Warranty	Standard 5years/10 years(opt.)					
	Certificates and approvals	CE-EMC+LVD(EN6100-6-3, 2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011) IEC60529; EN50549-1:2019; RD1699, UNE206006:2011, UNE206007:2013 Poland Type A (NC RFG:2016, PSE:2018, PTPiREE:2021) G98, G99					