

ON GRID SOLAR INVERTER
PH5900 TM Series

4~15KW | Three-phase | 380VAC

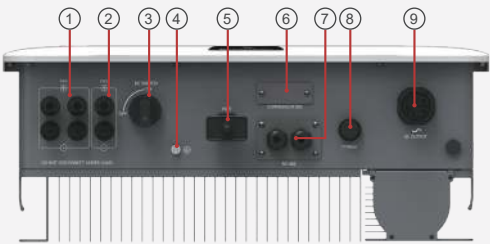
PH5900TM series PV inverters take full account of the needs of end customers, It is used to convert the DC generated by photovoltaic panels into AC and send it to the grid in a three-phase manner.with excellent performance at the same time, use LED as inverter status display, effectively improve product 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.



- Wide MPPT voltage range from 200V-1000V
- IP66 protection degree
- Integrated DC switch
- DSP controller
- The maximum efficiency is 98.4%
- Multi MPPT controller
- WIFI monitoring standard
- Easy installation

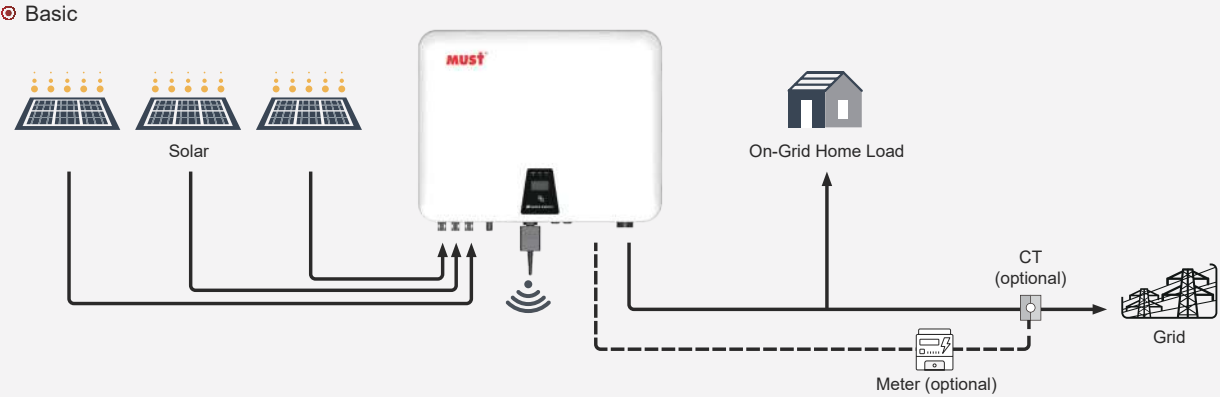


Back panel description



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

Solar system connection



MODEL	PH59-4000 TM	PH59-5000 TM	PH59-6000 TM	PH59-7000 TM	PH59-8000 TM	PH59-9000 TM	PH59-10000 TM	PH59-11000 TM	PH59-12000 TM	PH59-13000 TM	PH59-15000 TM	
Rated AC output power	4000W	5000W	6000W	7000W	8000W	9000W	10000W	11000W	12000W	13000W	15000W	
OUTPUT (AC)												
Max.AC apparent power	4400VA	5500VA	6600VA	7700VA	8800VA	9900VA	11000VA	12100VA	13200VA	14300VA	16500VA	
Max.output current	6.4A	8A	9.6A	11.1A	12.7A	14.3A	15.9A	17.5A	19A	20.6A	23.8A	
Nominal AC Voltage	230V / 400V											
AC Voltage range	320-478V											
AC grid frequency range	50/60Hz ±5Hz											
Power factor at Rated power	1											
Adjustable displacement power factor	0.8leading...0.8lagging											
Total harmonic distortion (THDi)	< 3%											
AC grid connection type	3W+N+PE											
INPUT DATA												
Max.recommended PV power	4800W	6000W	7200W	8400W	9600W	10800W	12000W	13200W	14400W	15600W	18000W	
Max.DC voltage	1000V											
Start voltage	160V											
Nominal voltage	600V											
MPPT voltage range	200V-1000V											
Max.input current	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A	21A/11A	21A/11A	21A/11A	
Number of independent MPP trackers / strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/2+1	2/2+1	2/2+1	
DC connection	H4 / MC4											
EFFICIENCY												
Max.efficiency	98.4%											
Euro weighted efficiency	97.6%	97.6%	97.6%	98%	98%	98%	98%	98%	98%	98%	98%	
MPPT efficiency	99.5%											
Protection devices	Island protection, DC reverse polarity protection , Output over current protection, Output overvoltage protection-varistor, Integrated DC switch, Ground fault monitoring, Integrated all-pole sensitive leakage current monitoring unit											
GENERAL DATA FEATURES												
Machine Dimension (W*H*D)(mm)	540*426*219											
Package Dimension (W*H*D)(mm)	644*330*520											
N.W(kg)	21			23.2					24.8			
G.W(kg)	23.2			25.4					27			
Operation temperature range	-25°C- +60°C with derating above 45°C											
Noise emission(typical)	≤35dB(A)											
Altitude	3000m											
Self-consumption (night)	< 1W											
Topology	Transformerless											
Cooling concept	Natural											
Environmental protection Rating	IP66											
Relative humidity	0~100%											
FEATURES												
AC connection	Connector											
Display	LED											
Communication interfaces	USB/WIFI/RS485/GPRS(opt)											
Warranty	Standard 5 years / 10 years (opt.)											
CERTIFICATION & STANDARDS												

*The technical specifications of this document are subject to change without any notice

ON GRID SOLAR INVERTER
PH5900 TM Series

17~25KW | Three-phase | 380VAC

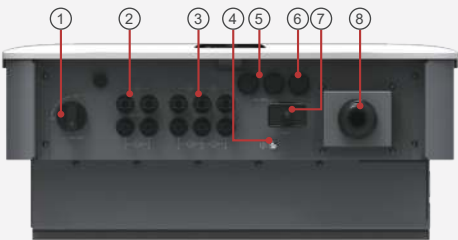
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- Wide MPPT voltage range from 200V-1000V
- IP66 protection degree
- Integrated DC switch
- DSP controller
- The maximum efficiency is 98.6%
- Multi MPPT controller
- WIFI monitoring standard
- Easy installation



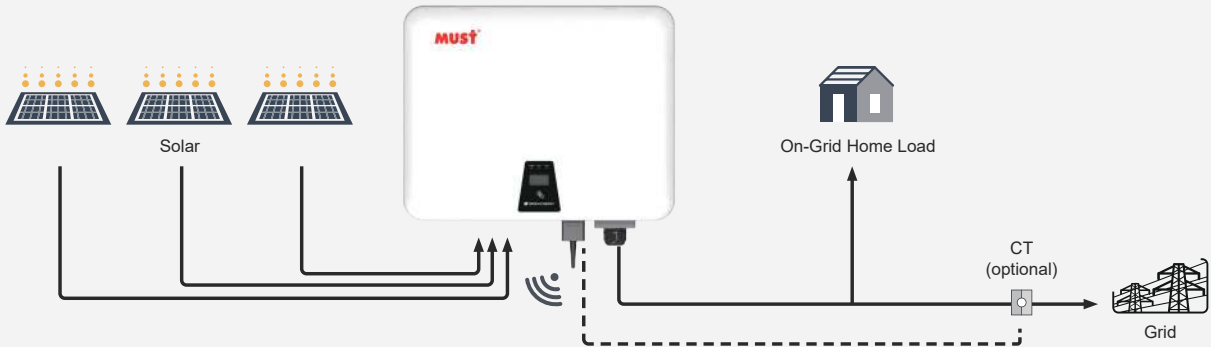
Back panel description



- 1. DC switch
- 2. MPPT1
- 3. MPPT2
- 4. Ground
- 5. RS-485 connector
- 6. CT/Meter port
- 7. WIFI connector
- 8. AC output

Solar system connection

Basic



MODEL	PH59-17000 TM	PH59-18000 TM	PH59-19000 TM	PH59-20000 TM	PH59-21000 TM	PH59-22000 TM	PH59-23000 TM	PH59-24000 TM	PH59-25000 TM
Rated AC output power	17000W	18000W	19000W	20000W	21000W	22000W	23000W	24000W	25000W
OUTPUT (AC)									
Max.AC apparent power	18700VA	19800VA	20900VA	22000VA	23100VA	24200VA	25300VA	26400VA	27500VA
Max.output current	27.1A	28.6	30.2	31.8A	33.5A	35A	36.6A	38A	39A
Nominal AC Voltage	230V/400V								
AC Voltage range	320-478V								
AC grid frequency range	50/60±5Hz								
Power factor at Rated power	1								
Adjustable displacement power factor	0.8leading...0.8lagging								
Total harmonic distortion (THDi)	< 3%								
AC grid connection type	3W+N+PE								
INPUT DATA									
Max.recommended PV power	20400W	21600W	22800W	24000W	25200W	26400W	27600W	28800W	30000W
Max.DC voltage	1100V								
Start voltage	250V								
Nominal voltage	600V								
MPPT voltage range	200V-1000V								
Max.input current	26A/26A	26A/26A	26A/26A	26A/26A	26A/39A	26A/39A	26A/39A	26A/39A	26A/39A
Number of independent MPP trackers / strings per MPP tracker	2/2	2/2	2/2	2/2	2/2+3	2/2+3	2/2+3	2/2+3	2/2+3
DC connection	H4 / MC4								
EFFICIENCY									
Max.efficiency	98.3%				98.6%				
Euro weighted efficiency	98%	98%	98%	98%	98.3%	98.3%	98.3%	98.3%	98.3%
MPPT efficiency	99.5%								
Protection devices	Island protection, DC reverse polarity protection , Output over current protection, Output overvoltage protection-varistor, Integrated DC switch, Ground fault monitoring, Integrated all-pole sensitive leakage current monitoring unit, DC Surge protection, AC Surge protection								
GENERAL DATA FEATURES									
Machine Dimension (W*H*D)(mm)	540*426*234								
Package Dimension (W*H*D)(mm)	650*338*542								
N.W(kg)	28.6								
G.W(kg)	32.5								
Operation temperature range	-25°C- +60°C with derating above 45°C								
Noise emission(typical)	≤40dB(A)								
Altitude	3000m								
Self-consumption (night)	< 1W								
Topology	Transformerless								
Cooling concept	Fan cooling								
Environmental protection Rating	IP66								
Relative humidity	0~100%								
FEATURES									
AC connection	Connector								
Display	LED								
Communication interfaces	WIFI/RS485/GPRS(opt)								
Warranty	Standard 5 years / 10 years (opt.)								
CERTIFICATION & STANDARDS									

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