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Photovoltaic Inverter 1.5-500kW Series



## PH1500-SS (Single-MPPT, Single-Phase)

PH1500-SS photovoltaic inverter is suitable for home rooftop photovoltaic system, designed under modern industrial concept. There are three colors for option with fashionable appearance. This model is applicable for the photovoltaic system with open-circuit voltage less than 450V, maximum output power less than 1800W. Its maximum conversion efficiency can reach 97%. First-class harmonic control ability, small size and light weight make it hold a safe lead among similar products.

### Excellent Performance

- Maximum Efficiency up to 97.0%
- European Efficiency up to 96.0%
- MPPT Efficiency over 99.5%
- THDi less than 1%

### High Safety and Reliability

- Up to 10 safety measurements
- DC switch disconnecter
- IP65 anti-dust and water-proof
- 45°C full-load output
- Wide range of MPPT voltage

### Customer-oriented Design

- User-friendly Large LCD
- Wireless monitoring and communication
- Fanless low-noise design
- 3 selectable appearance colors

## Technical Data PH1500-SS

DC Input Data	
Max. PV-generator power [W]	1800
Max. DC voltage [V]	450
MPPT voltage range [V]	125~450
Turn on DC voltage [V]	125
Max. DC work current [A]	12
Number of inputs/MPP trackers	1/1
DC connector	MC IV Connector
Standby power consumption [W]	5
AC Output Data	
Nominal AC power [W]	1500
Max. AC power [W]	1650
Max. AC current [A]	8
Nominal output voltage range	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G83/1, AS4777.2/3
AC grid frequency	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G83/1, AS4777.2/3
THDi	<1%
Power factor	~1 (Nominal power)
AC connector	Single phase
Efficiency	
Max. efficiency	97.0%
European efficiency	96.0%
MPPT adaptation efficiency	>99.5%
Safety Equipment	
Leakage current monitoring unit	Integrated
DC switch	Optional
Islanding protection	AFD
Grid monitoring	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, CEI 0-21, G83/1, AS4777.2/3
Normative Reference	
EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Safety compliance	According to IEC 62109-1, AS3100
General Data	
Dimensions (W*H*D) [mm]	330*350*125
Net weight [kg]	12
Housing	For outdoor and indoor
Mounting information	Wall mounting
Operating temperature range	-20~60°C (up 45°C derating)
Relative humidity	0~95%
Site altitude [m]	2000
IP protection class	IP65
Topology	Transformerless
Cooling concept	Natural convection
Noise level [dB]	<25
Display	4" LCD
Communication	USB2.0; RS485 [Wireless(ZigBee) optional]
Standard warranty [years]	5/10/15/20/25(optional)



color options





## PH4200-DS (Dual-MPPT, Single-Phase)

PH4200-DS photovoltaic inverter is suitable for home rooftop photovoltaic system, designed under modern industrial concept. There are three colors for option with fashionable appearance. This model uses advanced digital control technology and communication method as well as super MPP tracking and security technology. It has a wide range of input and output voltage. To ensure its stability and long service life, our inverter is manufactured with optimum quality components. It holds a safe lead among the same level of products.

### High Performance

- Maximum Efficiency up to 97.8%
- European Efficiency up to 97.4%
- MPPT Efficiency over 99.5%

### High Safety and Reliability

- Up to 10 safety measurements
- DC switch disconnecter
- IP65 dust-proof and water-proof
- 45°C full-load output
- Wide range of input voltage

### Easy Operation

- User-friendly Large LCD
- Wireless monitoring and communication
- Voice control operation
- Fanless low-noise design
- 3 selectable appearance colors

## Technical Data PH4200-DS

<b>DC Input Data</b>	
Max. PV-generator power [W]	4600
Max. DC voltage [V]	580
MPPT voltage range [V]	125~550
Turn on DC voltage [V]	125
Max. DC work current [A]	2*15
Number of inputs/MPP trackers	4/2 (can parallel)
DC connector	MC IV Connector
Standby power consumption [W]	5
<b>AC Output Data</b>	
Nominal AC power [W]	4200
Max. AC power [W]	4400
Max. AC current [A]	21
Nominal output voltage range	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
AC grid frequency	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
THDi	<1.5%
Power factor	0.90 leading...0.90 lagging
AC connector	Single phase
<b>Efficiency</b>	
Max. efficiency	97.8%
European efficiency	97.4%
MPPT adaptation efficiency	>99.5%
<b>Safety Equipment</b>	
Leakage current monitoring unit	Integrated
DC switch	Optional
Islanding protection	AFD
Grid monitoring	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, CEI 0-21, G59/2, AS4777.2/3
Normative Reference	
EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Safety compliance	According to IEC 62109-1, AS3100, CNCA/CTS0004-2009A
<b>General Data</b>	
Dimensions (W*H*D) [mm]	390*417*165
Net weight [kg]	20
Housing	For outdoor and indoor
Mounting information	Wall mounting
Operating temperature range	-20~60°C (up 45°C derating)
Relative humidity	0~95%
Site altitude [m]	2000
IP protection class	IP65
Topology	Transformerless
Cooling concept	Natural convection
Noise level [dB]	<25
Display	4" LCD
Communication	USB2.0; RS485 [Wireless(ZigBee) optional]
Standard warranty [years]	5/10/15/20/25(optional)



color options





## PH17K-DT (Dual-MPPT, Three-Phase)

PH17K-DT photovoltaic inverter is suitable for commercial and industrial roofs as well as small and medium-sized photovoltaic power systems. The optimized inductor design ensures less noise and higher European efficiency. The reliable grid support capabilities, high waterproof and dustproof grade and extra-wide voltage access range of components not only can be used in commercial roof and commercial power station systems, but also is qualified for the design requirements of large-megawatt power station.

### High Performance

- Maximum Efficiency up to 98.2%
- European Efficiency up to 97.4%
- MPPT Efficiency over 99.5%

### High Safety and Reliability

- DC switch disconnecter
- IP65 dust-proof and water-proof
- 45°C full-load output

### Customer-oriented Design

- Super large 5-inch LCD
- 30% lighter than similar products
- Multiple monitoring and communication
- Up to 800 pieces can be integrated in one system

## Technical Data PH17K-DT

### DC Input Data

Max. PV-generator power [W]	17500
Max. DC voltage [V]	1000
MPPT voltage range [V]	260~850
Turn on DC voltage [V]	250
Max. DC work current [A]	22/22
Number of inputs/MPP trackers	6/2 (can parallel)
DC connector	MC IV Connector
Standby power consumption [W]	10

### AC Output Data

Nominal AC power [W]	17000
Max. AC power [W]	17000
Max. AC current [A]	25
Nominal output voltage range	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
AC grid frequency	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, ENEL, G59/2, AS4777.2/3
THDi	<1.5%
Power factor	0.90 leading...0.90 lagging
AC connector	3W/N/PE, 230/400V

### Efficiency

Max. efficiency	98.2%
European efficiency	>97.5%
MPPT adaptation efficiency	>99.5%

### Safety Equipment

Leakage current monitoring unit	Integrated
DC switch	Optional
Islanding protection	AFD
Grid monitoring	According to VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, CEI 0-21, G59/2, AS4777.2/3
Normative Reference	
EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Safety compliance	According to IEC 62109-1, AS3100

### General Data

Dimensions (W*H*D) [mm]	516*650*203
Net weight [kg]	39
Housing	For outdoor and indoor
Mounting information	Wall mounting
Operating temperature range	-20~60°C (up 45°C derating)
Relative humidity	0~95%
Site altitude [m]	2000
IP protection class	IP65
Topology	Transformerless
Cooling concept	Fan cooling
Noise level [dB]	<45
Display	5" LCD
Communication	USB2.0; RS485 [Wireless(ZigBee) optional]
Standard warranty [years]	5/10/15/20/25(optional)