



THREE PHASE STRING INVERTER 100-120 KW

CSI-100KW | CSI-110KW | CSI-120KW



CSI Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for industrial and commercial rooftop applications.

These inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.5% conversion efficiency, a wide operating range of 200-1000 V_{DC}, and 6 or 9 MPPTs for maximum energy harvest.



Standard warranty, extension up to 20 years

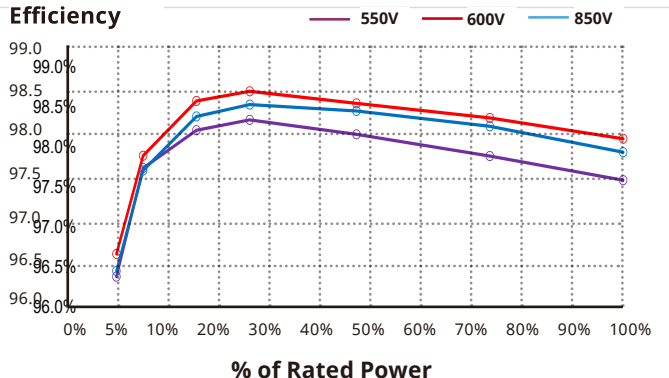
KEY FEATURES

- Maximum efficiency of 98.5%, Maximum EU efficiency of 98.1%
- 6 or 9 MPPTs to achieve higher system efficiency
- 20A input for each string, perfectly match with Hiku7 series module*
- Integrated DC Switches
- Smart string monitoring
- Integrated anti-PID function (Optional)
- Supports aluminum cable

EFFICIENCY CURVE

CSI-120KW

Efficiency



* For detail information, please refer to Installation Manual.

* "20A input for each string, perfectly match with Hiku7 series module", this feature applies to the models of 6 MPPTs only.

HIGH RELIABILITY

- Intelligent fan-cooling
- SPD Type II for DC and AC
- Leakage current suppression technology
- DC reverse polarity protection

BROAD ADAPTIBILITY

- IP66 protection for harsh environment
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Wide MPPT range for flexible string sizing

CSI Solar Co., Ltd. is committed to providing high quality solar products, solar system solutions and services to customers around the world. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 63 GW deployed around the world since 2001.

MODEL NAME	CSI-100K-T4001A-E	CSI-100K-T4001B-E	CSI-110K-T4001A-E	CSI-110K-T4001B-E	CSI-120K-T4001A-E	CSI-120K-T4001B-E
INPUT (DC)						
Max. Input Voltage	1100 V _{DC}					
Start-up DC Input Voltage	195 V _{DC}					
Rated Input Voltage	600 V _{DC}					
MPPT Voltage Range	200 - 1000 V _{DC}					
Max. String Input No.	12	18	12	18	12	18
MPPT No.	6	9	6	9	6	9
Max. Input Current	6 x 40 A	9 x 32 A	6 x 40 A	9 x 32 A	6 x 40 A	9 x 32 A
Max. DC short-circuit current	6 x 50 A	9 x 40 A	6 x 50 A	9 x 40 A	6 x 50 A	9 x 40 A
OUTPUT (AC)						
Rated AC Output Power	100 kW	100 kW	110 kW	110 kW	120 kW	120 kW
Max. AC Output Power (Apparent)	100 kVA	100 kVA	110 kVA	110 kVA	120 kVA	120 kVA
Rated Output Voltage	380 / 400 V _{AC}					
Grid Connection Type	3 L / N / PE					
Max Output Current	152 A	152 A	167.1 A	167.1 A	182.3 A	182.3 A
Rated Output Frequency	50 / 60 Hz					
THDi	< 3 %					
Power Factor	0.8 leading ... 0.8 lagging					
Zero Export Solution	optional, Smart Meter or EPM-Box needed					
EFFICIENCY						
Max. Efficiency	98.5 %					
EU Efficiency	98.1 %					
ENVIRONMENT						
Protection Degree	IP66					
Cooling	Intelligent Fan Cooling					
Operating Temperature Range	-30 °C to +60 °C					
Operating Humidity	0 - 100 % Non-condensing					
Operating Altitude	4000 m (> 3000 m derating)					
PROTECTION						
DC Switch	Yes					
Anti-Islanding Protection	Yes					
DC Reverse-Polarity Protection	Yes					
DC Insulation Resistance Detection	Yes					
Residual Current Monitoring	Yes					
String Monitoring	Yes					
AC Output Over Current Protection	Yes					
AC Short Circuit Protection	Yes					
Grid Monitoring	Yes					
Anti-PID Module	Optional					
Overvoltage Class	II (DC), III (AC)					
DC / AC SPD	DC SPD Type II / AC SPD Type II (Type I Optional)					
DISPLAY AND COMMUNICATION						
Display	LED & APP (via Bluetooth)					
Communication	RS485 / WiFi					
MECHANICAL DATA						
Dimensions (W / H / D)	1050 x 687 x 355 mm					
Weight	90 kg	95 kg	90 kg	95 kg	90 kg	95 kg
DC Inputs Type	MC4					
AC Outputs Type	OT Terminals (Support the AC cables Max. 240mm ²)					
CERTIFICATION						
Safety / EMC	IEC62109-1/2, IEC 61000-6-2/3					
Grid Code	IEC61727 & IEC62116, EN50549-1/2, CEI0-21/16, VDE4105, VDE4110, NRS097					

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Caution: For professional use only. The installation and handling of PV equipment requires professional skills and should only be performed by qualified professionals. Please read the safety and installation instructions before using the product.

CSI Solar Co., Ltd.

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THREE PHASE STRING INVERTER 25-40 KW

CSI-25K-T400 | CSI-30K-T400
CSI-33K-T400 | CSI-36K-T400 | CSI-40K-T400

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for commercial rooftop and small ground-mount applications. An NRTL approved, cost-effective alternative to MLPE, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.8% conversion efficiency, a wide operating range of 180-1000 V_{DC}, and four MPPTs for maximum energy harvest.



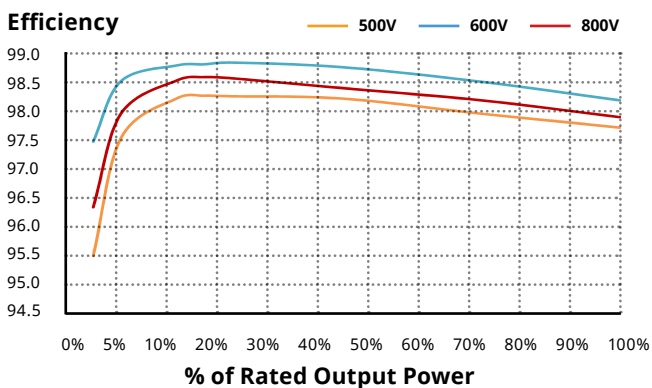
Standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 98.8%, Maximum EU efficiency of 98.3%
- Four MPPTs to achieve higher system efficiency
- Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- Up to 30% DC input oversize, 13A input for each PV sting

EFFICIENCY CURVE

CSI-40K-T400GL02-E



*For detailed information, please refer to the Installation Manual.

HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection
- Fuse free design

BROAD ADAPTIBILITY

- IP65 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC load rated disconnects
- Wide MPPT range for flexible string sizing
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 40 GW deployed around the world since 2001.

CANADIAN SOLAR INC.

545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com

SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-25K-T400GL02-E	CSI-30K-T400GL02-E	CSI-33K-T400GL02-E	CSI-36K-T400GL02-E	CSI-40K-T400GL02-E
DC INPUT					
Max. PV Power	33kW	39kW	43kW	47kW	52 kW
Max. DC Input Voltage			1100 V _{DC}		
Start-up DC Input Voltage/Power			180 V _{DC}		
Number of MPP Trackers	3			4	
MPPT Voltage Range	200 - 1000 V _{DC}				
Max. Input Current (Imp)	78A (26A per MPPT)			104A (26A per MPPT)	
Max. Short Circuit Current (Isc)	120A (40A per MPPT)			160A (40A per MPPT)	
Number of DC Inputs	6 (2 per MPPT)			8 (2 per MPPT)	
DC Disconnection Type	Load rated DC switch				
AC OUTPUT					
Rated AC Output Power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. AC Output Power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated Output Voltage	400 V _{AC}				
Grid Connection Type	3 W / N / PE				
Rated Grid Output Current	36 A	43.3 A	47.6 A	51.9 A	57.7 A
Max Output Current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Rated Output Frequency	50 / 60 Hz				
Output Frequency Range*	47 - 52 / 57 - 62 Hz				
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)				
Current THD	< 3%				
DC Injection Current	< 0.5 % of Rated Grid Output Current				
SYSTEM					
Max. Efficiency	98.8 %				
EU Efficiency	98.3 %				
Night Consumption	< 1 W				
Anti-PID Module	Optional				
ENVIRONMENT					
Protection Degree	IP65				
Cooling	Natural Convection Cooling				
Operating Temperature Range	-25 ° C to +60 ° C				
Storage Temperature Range	-40 ° C to +70 ° C				
Operating Humidity	0 - 100 % Condensing				
Operating Altitude	4000 m				
Audible Noise	<30 dBA @ 1 m				
DISPLAY AND COMMUNICATION					
Display	LCD, 2×20 Z				
Communication	WIFI/RS485 Optional				
MECHANICAL DATA					
Dimensions (W / H / D)	647 x 629 x 252 mm				
Weight	45 kg				
Installation Angle	0~15 Degrees from Vertical				
DC Inputs	MC4				
SAFETY					
Safety and EMC Standard	IEC62109-1/2, IEC61000-6-1/2/3/4				
Grid Standard	IEC62116, IEC61727				

*The "Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standard.

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545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com

SINGLE PHASE STRING INVERTER 7-10 KW

**CSI-7KTL1P-GI-FL | CSI-8KTL1P-GI-FL
CSI-9KTL1P-GI-FL | CSI-10KTL1P-GI-FL**

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of single-phase string architecture for commercial rooftop and small ground-mount applications. An NRTL approved, cost-effective alternative to MLPE, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.1% conversion efficiency, a wide operating range of 100-500 V_{DC}, and three MPPTs for maximum energy harvest.



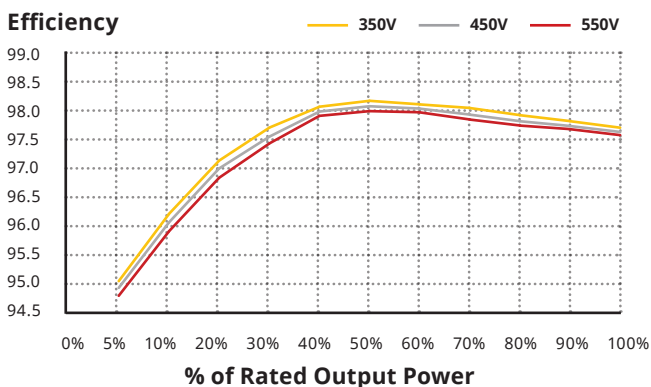
Standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency up to 98.1%, Maximum EU efficiency up to 97.6%
- 3 MPPTs to achieve higher system efficiency
- Transformerless design
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

EFFICIENCY CURVE

CSI-9KTL1P-GI-FL @ 230 V_{AC}



*For detailed information, please refer to the Installation Manual.

HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection

BROAD ADAPTIBILITY

- IP65 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC load rated disconnects
- Supports up to 3 DC string inputs (1 per MPPT)
- Wide MPPT range for flexible string sizing

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 33 GW deployed around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

CANADIAN SOLAR INC.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-7KTL1P-GI-FL	CSI-8KTL1P-GI-FL	CSI-9KTL1P-GI-FL	CSI-10KTL1P-GI-FL
DC INPUT				
Max. PV Power	8.0 kW	9.2 kW	10.8 kW	11.5 kW
Max. DC Input Voltage	600 V _{DC}			
Start-up DC Input Voltage/Power	120 V _{DC}			
Number of MPP Trackers	3			
MPPT Voltage Range	100 - 500 V _{DC}			
Max. Input Current (Imp)	30 A (10 A per MPPT)			
Max. Short Circuit Current (Isc)	46.8 A (15.6 A per MPPT)			
Number of DC Inputs	3 (1 per MPPT)			
DC Disconnection Type	Load rated DC switch			
AC OUTPUT				
Rated AC Output Power	7 kW	8 kW	9 kW	10 kW
Max. AC Output Power	7.7 kW	8.8 kW	9.9 kW	10 kW
Rated Output Voltage	230 V _{AC}			
Output Voltage Range*	160 - 285 V _{AC}			
Grid Connection Type	1 Φ / PE			
Rated Grid Output Current	30.4 A	34.8 A	39.1 A	43.5 A
Max Output Current	33.7 A	36.6 A	41.3 A	45.9 A
Rated Output Frequency	50 / 60 Hz			
Output Frequency Range*	47 - 52 / 57 - 62 Hz			
Power Factor	1 default (± 0.8 adjustable)			
Current THD	< 1.5 %			
DC Injection Current	< 0.5 % of Rated Grid Output Current			
AC Disconnect Type	Not Available			
SYSTEM				
Topology	Transformerless			
Max. Efficiency	98.1 %			
CEC Efficiency	97.6 %			
Night Consumption	< 1 W			
ENVIRONMENT				
Protection Degree	IP65			
Cooling	Natural Convection Cooling			
Operating Temperature Range	-25 °C to +60 °C			
Storage Temperature Range	-40 °C to +70 °C			
Operating Humidity	0 - 100 % condensing			
Operating Altitude	4000 m			
Audible Noise	<30 dBA @ 1 m			
DISPLAY AND COMMUNICATION				
Display	LCD + LED			
Communication	Standard: RS485 (Modbus)			
MECHANICAL DATA				
Dimensions (W / H / D)	333 x 573 x 249 mm			
Weight	18 kg			
Installation Angle	90 degrees from horizontal			
DC Inputs	MC4 compatible			
SAFETY				
Safety and EMC Standard	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3			
Grid Standard	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727, VDE N4105, NBR-16149/NBR-16150			
Smart-Grid Features	Voltage-Ride Thru, Frequency-Ride Thru, Soft-Start, Volt-Var, Frequency-Watt, Volt-Watt			

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THREE PHASE STRING INVERTER 5-10 KW

CSI-5K-T400 | CSI-6K-T400
CSI-8K-T400 | CSI-10K-T400

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for residential and commercial rooftop applications. An NRTL approved, cost-effective alternative to MLPE, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.7% conversion efficiency, a wide operating range of 160-850 V_{DC}, and two MPPTs for maximum energy harvest.



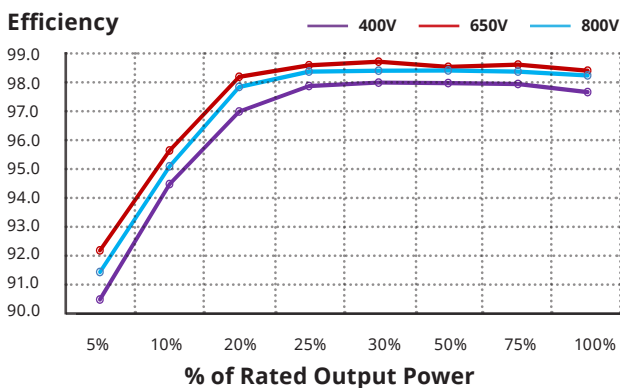
Standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.1%
- Two MPPTs to achieve higher system efficiency
- Strings intelligent monitoring
- Up to 20% DC input oversize

EFFICIENCY CURVE

CSI-10K-T400GL01-E



HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection
- Fuse free design

BROAD ADAPTIBILITY

- IP65 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC load rated disconnects
- Wide MPPT range for flexible string sizing
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

For detailed information, please refer to the Installation Manual.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-5K-T400GL01-E	CSI-6K-T400GL01-E	CSI-8K-T400GL01-E	CSI-10K-T400GL01-E
DC INPUT				
Max. DC Power	6 kW	7.2 kW	9.6 kW	12 kW
Max. DC Input Voltage	1000 V _{DC}			
Start-up DC Input Voltage/Power	180 V _{DC}			
Number of MPP Trackers	2			
MPPT Voltage Range	160 - 850V _{DC}			
Max. Input Current (Imp)	11A /11A			
Max. Short Circuit Current (Isc)	17.2A /17.2A			
Number of DC Inputs	2/2			
DC Disconnection Type	Load rated DC switch			
AC OUTPUT				
Rated AC Output Power	5 kW	6 kW	8 kW	10 kW
Max. AC Output Power	5.5 kW	6.6 kW	8.8 kW	11 kW
Rated Output Voltage*	220/380 V _{AC} / 230/400 V _{AC}			
Grid Connection Type	3 W / N / PE			
Rated Grid Output Current	7.6A / 7.2 A	9.1A / 8.7A	12.2A / 11.5 A	15.2A / 14.4 A
Max Output Current	7.9 A	9.5 A	12.7 A	15.9 A
Rated Output Frequency	50/60 Hz			
Output Frequency Range*	45-55 Hz/55-65 Hz			
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)			
Current THD	< 1.5 %			
DC Injection Current	< 0.5 % of Rated Grid Output Current			
SYSTEM				
Max. Efficiency	98.3%		98.7%	
EU Efficiency	97.8%		98.1%	
Night Consumption	< 1 W			
ENVIRONMENT				
Protection Degree	IP65			
Cooling	Natural Convection Cooling			
Operating Temperature Range	-25 ° C to +60 ° C			
Storage Temperature Range	-40 ° C to +70 ° C			
Operating Humidity	0 - 100 % Condensing			
Operating Altitude	4000 m			
Audible Noise	<30 dBA @ 1 m			
DISPLAY AND COMMUNICATION				
Display	LCD, 2×20 Z			
Communication	WIFI/RS485 Optional			
MECHANICAL DATA				
Dimensions (W / H / D)	563 x 310 x 219 mm			
Weight	17.3 kg		18 kg	
Installation Angle	0~15 Degrees from Vertical			
DC Inputs	MC4			
SAFETY				
Safety and EMC Standard	IEC62109-1/-2, EN61000-6-2, EN61000-6-3			
Grid Standard	IEC61727, AS777			

*The "Rated Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standard.

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SINGLE PHASE STRING INVERTER

CSI-700TL1P-GI-FL | CSI-1KTL1P-GI-FL | CSI-1.5KTL1P-GI-FL
 CSI-2KTL1P-GI-FL | CSI-2.5KTL1P-GI-FL | CSI-3.0KTL1P-GI-FL



KEY FEATURES

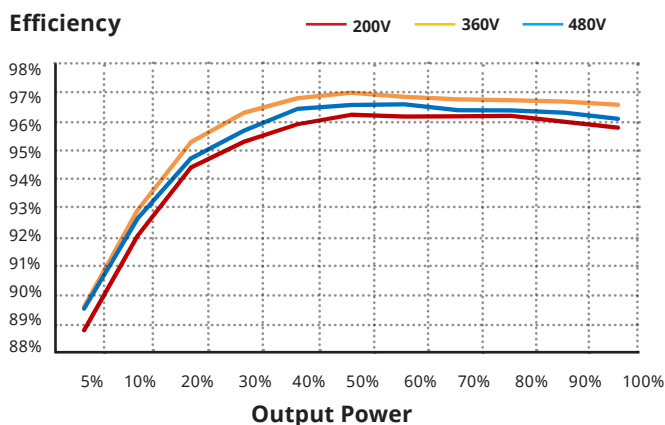
- Max. efficiency up to 97.5%, wide input voltage range
- Integrated DC switch
- Transformerless topology
- Compact design
- Flexible communication connection: supports RF, WiFi, Ethernet



Standard warranty, extension up to 20 years

EFFICIENCY CURVE

CSI-3.0KTL1P-GI-FL @220 Vac



HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection

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TECHNICAL DATA

MODEL NAME	CSI-700TL1P-GI-FL	CSI-1KTL1P-GI-FL	CSI-1.5KTL1P-GI-FL	CSI-2KTL1P-GI-FL	CSI-2.5KTL1P-GI-FL	CSI-3.0KTL1P-GI-FL
DC INPUT						
Max. PV power	0.9KW	1.2KW	1.8KW	2.3KW	3KW	3.5KW
Max. DC input voltage	600V					
Start-up DC Input Voltage	60V			90V		
Number of MPP Trackers	1/1					
MPPT Voltage Range	50-500V			80-500V		
Max. Input Current (Imp)	11A					
Max. Short Circuit Current (Isc)	17.2A					
Number of DC Inputs	1/1					
DC Disconnection Type	Load rated DC switch					
Nominal DC Voltage	220V			330V		
Max. Power per MPPT	0.9KW	1.2KW	1.8KW	2.3KW	3KW	3.5KW
MPPT Full Power Voltage Range	66-500V	94-500V	141-500V	187-500V	234-500V	281-500V
AC OUTPUT						
Rated AC Output Power	0.7KW	1KW	1.5KW	2KW	2.5KW	3KW
Max. AC Output Power	0.8KW	1.1KW	1.7KW	2.2KW	2.8KW	3.3KW
Rated Output Voltage	220V/230V					
OUTPUT VOLTAGE RANGE						
Grid Connection Type	1 Φ / PE					
Rated Grid Output Current	3.2/3.0A	4.5/4.3A	6.8/6.5A	9.1/8.7A	11.4/10.9A	13.6/13A
Max. Output Current	4.4A	5.2A	8.1A	10.5A	13.3A	15.7A
Rated Output Frequency	50HZ/60HZ					
Output Frequency Range	47-52HZ OR 57-62HZ					
Power Factor	0.8 Leading ... 0.8 Lagging					
Current THD	<0.3%					
DC Injection Current	<0.5% In					
Max. Apparent Output Power	0.8KVA	1.1KVA	1.7KVA	2.2KVA	2.8KVA	3.3KVA
SYSTEM						
Topology	Transformerless					
Max. Efficiency	97.2%			97.5%		
EU Efficiency	96.5%			96.8%		
MPPT Efficiency	>99.5%			>99.5%		
Night Consumption	<1W (Night)					
ENVIRONMENT						
Protection Degree	IP65					
Cooling	Natural convection					
Operating Ambient Temperature Range	-25 C to +60 C					
Storage Temperature Range	-40 C to +70 C					
Operating Humidity	0~100%					
Operating Altitude	4000m					
Noise Emission{typical}	<20dB					
GENERAL DATA						
Display	LCD, 2x20 Z.					
Communication Connections	WIFI/RS485 Optional					
Dimensions (WxHxD)	310W*373H*160D (mm)					
Net Weight	8.5kg			8.8kg		
Installation Angle	90 degrees from horizontal					
DC Inputs	MC4					
Warranty	5 Years					
SAFETY						
Safety and EMC Standard	IEC62109-1/-2, NB/T 32004					
Grid Standard	EN50438, G83/2, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, NBR-16149/NBR-16150					

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