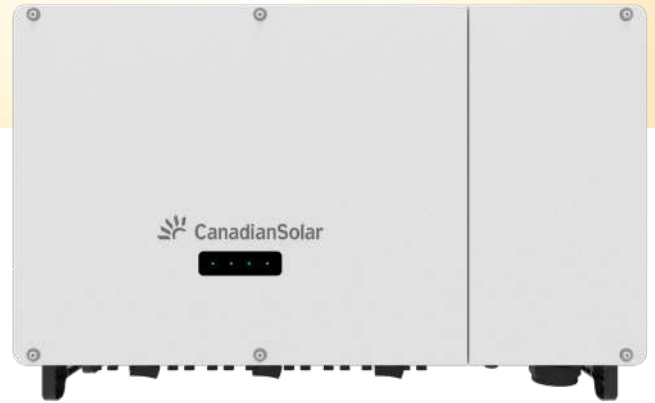




# THREE PHASE STRING INVERTER 100-120 KW

**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<sub>DC</sub>, and 6 or 9 MPPTs for maximum energy harvest.

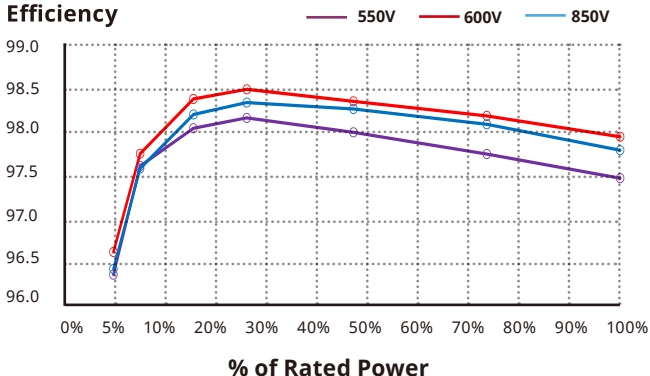
## KEY FEATURES

- 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
<b>INPUT (DC)</b>						
Max. Input Voltage	1100 V <sub>DC</sub>					
Start-up DC Input Voltage	195 V <sub>DC</sub>					
Rated Input Voltage	600 V <sub>DC</sub>					
MPPT Voltage Range	200 - 1000 V <sub>DC</sub>					
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 30 A	6 x 40 A	9 x 30 A	6 x 40 A	9 x 30 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
<b>OUTPUT (AC)</b>						
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 <sub>AC</sub>					
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	Supported					
<b>EFFICIENCY</b>						
Max. Efficiency	98.5 %					
EU Efficiency	98.1 %					
<b>ENVIRONMENT</b>						
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)					
<b>PROTECTION</b>						
DC Switch	Yes					
Anti-Islanding Protection	Yes					
DC Reverse-Polarity Protection	Yes					
DC Insulation Resistance Dection	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)					
<b>DISPLAY AND COMMUNICATION</b>						
Display	LED & APP					
Communication	RS485 / WiFi (Optional)					
<b>MECHANICAL DATA</b>						
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 <sup>2</sup> )					
<b>CERTIFICATION</b>						
Safety / EMC	IEC62109, IEC 61000-6-2/3					
Grid Code	IEC61727 & IEC62116					

The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI SOLAR CO., LTD reserves the right to make necessary adjustment to the information described herein at any time without notice.

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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