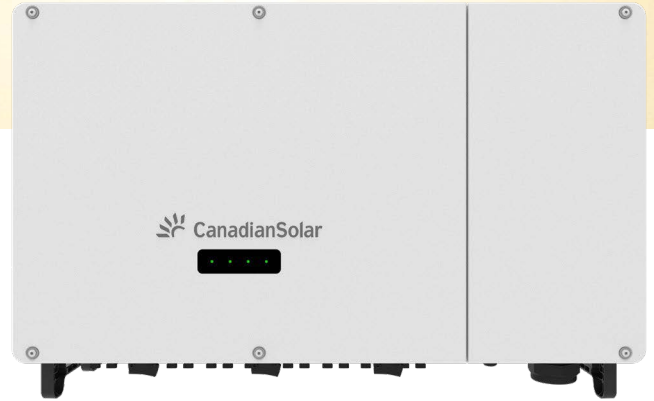




# THREE PHASE STRING INVERTER 75-120 KW



**CSI-75KW | 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.

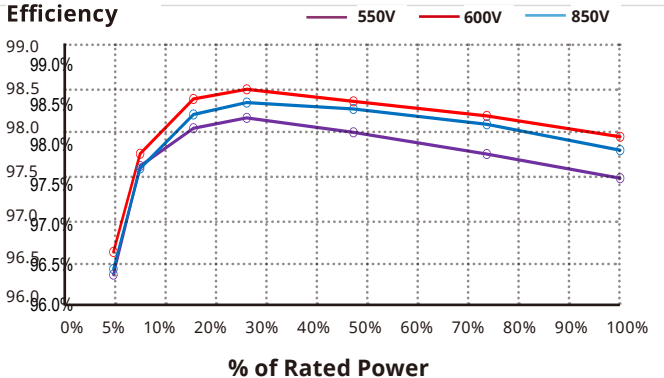
## KEY FEATURES

- 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-75K-T40001-E  | 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  | 12                | 18                | 12                | 18                | 12                | 18                |
| MPPT No.                          | 6   | 6                 | 9                 | 6                 | 9                 | 6                 | 9                 |
| Max. Input Current                | 6 x 40 A  | 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  | 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             | 75 kW   | 100 kW            | 100 kW            | 110 kW            | 110 kW            | 120 kW            | 120 kW            |
| Max. AC Output Power (Apparent)   | 75 kVA  | 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                | 114A  | 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                            | 88 kg   | 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                      | IEC62109-1/2, IEC 61000-6-2/3                                 |                   |                   |                   |                   |                   |                   |
| Grid Code                         | IEC61727 & IEC62116, EN50549-1/2                              |                   |                   |                   |                   |                   |                   |

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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