



# THREE PHASE STRING INVERTER 15-25 kW

**CSI-15kW | CSI-17kW | CSI-20kW  
CSI-23kW | CSI-25kW**



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 98.6% conversion efficiency, a wide operating range of 160-1000 V<sub>DC</sub>, and 2 MPPTs for maximum energy harvest.

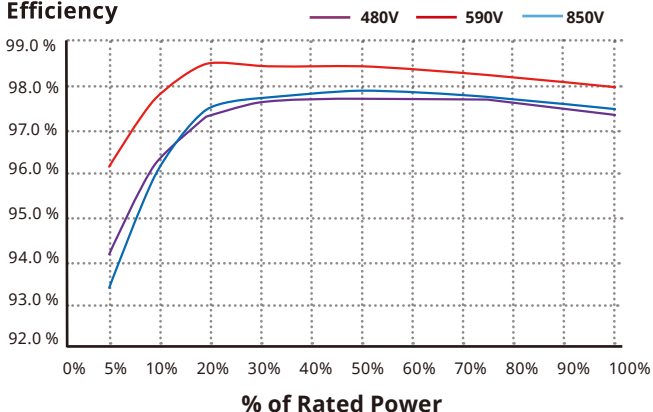
## KEY FEATURES

- Maximum efficiency of 98.6%,  
Maximum EU efficiency of 98.0%
- 2 MPPTs to achieve higher system efficiency
- 16A input for each string supports access to multiple high-power modules
- Integrated DC Switches
- AFCI Optional

## EFFICIENCY CURVE

CSI-25KW

Efficiency



## HIGH RELIABILITY

- Intelligent force air-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.

**SYSTEM/TECHNICAL DATA**

| MODEL NAME                        | CSI-15K-T4001A-E                          | CSI-17K-T4001A-E | CSI-20K-T4001A-E | CSI-23K-T4001A-E | CSI-25K-T4001A-E |
|-----------------------------------|---|------------------|------------------|------------------|------------------|
| <b>INPUT (DC)</b>                 |   |                  |                  |                  |                  |
| Max. Input Voltage                | 1100 V <sub>DC</sub>                      |                  |                  |                  |                  |
| Start-up DC Input Voltage         | 180 V <sub>DC</sub>                       |                  |                  |                  |                  |
| Rated Input Voltage               | 630 V <sub>DC</sub>                       |                  |                  |                  |                  |
| MPPT Voltage Range                | 160 - 1000 V <sub>DC</sub>                |                  |                  |                  |                  |
| Max. String Input No.             | 4   |                  |                  |                  |                  |
| MPPT No.                          | 2   |                  |                  |                  |                  |
| Max. Input Current                | 2×32 A                                    |                  |                  |                  |                  |
| Max. DC short-circuit current     | 2×40 A                                    |                  |                  |                  |                  |
| <b>OUTPUT (AC)</b>                |   |                  |                  |                  |                  |
| Rated AC Output Power             | 15 kW                                     | 17 kW            | 20 kW            | 23 kW            | 25 kW            |
| Max. AC Output Power (Apparent)   | 15 kVA                                    | 17 kVA           | 20 kVA           | 23 kVA           | 25 kVA           |
| Rated Output Voltage              | 380 V <sub>AC</sub> / 400 V <sub>AC</sub> |                  |                  |                  |                  |
| Grid Connection Type              | 3 L / N / PE                              |                  |                  |                  |                  |
| Max Output Current                | 22.8 A                                    | 25.8 A           | 30.4 A           | 34.9 A           | 37.9 A           |
| Rated Output Frequency            | 50 / 60 Hz                                |                  |                  |                  |                  |
| THDi                              | < 3 %                                     |                  |                  |                  |                  |
| Power Factor                      | 0.8 leading ... 0.8 lagging               |                  |                  |                  |                  |
| Zero Export Solution              | Support                                   |                  |                  |                  |                  |
| <b>EFFICIENCY</b>                 |   |                  |                  |                  |                  |
| Max. Efficiency                   | 98.5 %                                    | 98.5 %           | 98.6 %           | 98.6 %           | 98.6 %           |
| EU Efficiency                     | 98.0 %                                    | 98.0 %           | 98.0 %           | 98.0 %           | 98.0 %           |
| <b>ENVIRONMENT</b>                |   |                  |                  |                  |                  |
| Protection Degree                 | IP66                                      |                  |                  |                  |                  |
| Cooling                           | Intelligent Air Cooling                   |                  |                  |                  |                  |
| Operating Temperature Range       | -30 °C to +60 °C                          |                  |                  |                  |                  |
| Operating Humidity                | 0 - 100 %                                 |                  |                  |                  |                  |
| 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                                       |                  |                  |                  |                  |
| AC Output Over Current Protection | Yes                                       |                  |                  |                  |                  |
| AC Short Circuit Protection       | Yes                                       |                  |                  |                  |                  |
| Grid Monitoring                   | Yes                                       |                  |                  |                  |                  |
| AFCI                              | Optional                                  |                  |                  |                  |                  |
| DC / AC SPD                       | DC SPD Type II / AC SPD Type II           |                  |                  |                  |                  |
| <b>DISPLAY AND COMMUNICATION</b>  |   |                  |                  |                  |                  |
| Display                           | LED Indicators & APP                      |                  |                  |                  |                  |
| Communication                     | WiFi(Optional)                            |                  |                  |                  |                  |
| <b>MECHANICAL DATA</b>            |   |                  |                  |                  |                  |
| Dimensions (W / H / D)            | 435 x 520 x 194 mm                        |                  |                  |                  |                  |
| Weight                            | 17 kg                                     |                  | 19 kg            |                  |                  |
| DC Inputs Type                    | MC4                                       |                  |                  |                  |                  |
| AC Outputs Type                   | Quick Connection Plug                     |                  |                  |                  |                  |
| <b>CERTIFICATION</b>              |   |                  |                  |                  |                  |
| Safety / EMC                      | IEC62109, IEC 61000-6- 1/2/3/4            |                  |                  |                  |                  |
| 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.**

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, service.inverter@csisolar.com