



# 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.

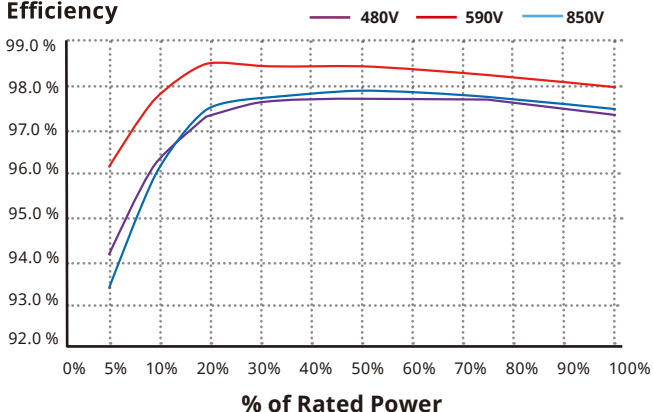
## KEY FEATURES

- 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.**

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