



# THREE PHASE STRING INVERTER 100-120 KW

**CSI-100K-T4001A-E | CSI-100K-T4001B-E |  
CSI-110K-T4001A-E | CSI-110K-T4001B-E |  
CSI-120K-T4001A-E | CSI-120K-T4001B-E**

CSI Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string architecture for commercial and industrial rooftop applications. CSI inverters are easy to configure and have a high conversion efficiency of 98.5% to provide high yield and significant BoS savings. With a wide operating range of 200-1000 VDC and 6 or 9 MPPTs, they are the ideal choice for maximum energy harvesting.



**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
- 20 A input for each string, perfectly matches with TOPHiku7 series modules\*
- Integrated DC switch
- Smart string monitoring
- Supports aluminum cable
- Integrated AFCI function
- DC reverse polarity protection

## HIGH RELIABILITY

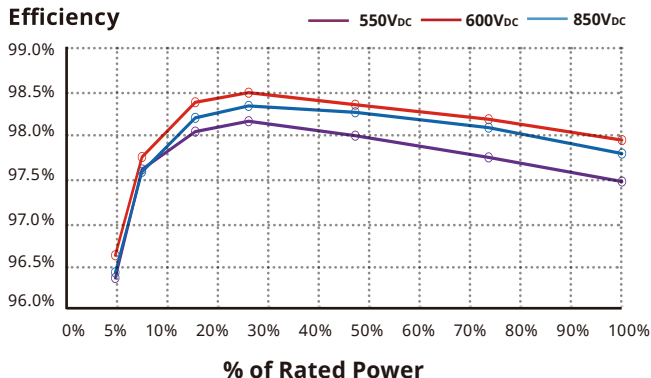
- Intelligent cooling technology
- SPD Type II for DC and AC
- Residual current monitoring

## BROAD ADAPTABILITY

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

## EFFICIENCY CURVE

CSI-120K-T4001B-E  
Efficiency



For detail information, please refer to Installation Manual.

\*6 MPPTs models only.

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>Product number</b>	74002417	74002602	74002419	74002603	74002421	74002604
<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 per String	20 A <sub>DC</sub>	20 A <sub>DC</sub> <sup>1</sup>	20 A <sub>DC</sub>	20 A <sub>DC</sub> <sup>1</sup>	20 A <sub>DC</sub>	20 A <sub>DC</sub> <sup>1</sup>
Max. Input Current per MPPT	40 A <sub>DC</sub>	32 A <sub>DC</sub>	40 A <sub>DC</sub>	32 A <sub>DC</sub>	40 A <sub>DC</sub>	32 A <sub>DC</sub>
Max. DC short-circuit current per MPPT	50 A <sub>DC</sub>	40 A <sub>DC</sub>	50 A <sub>DC</sub>	40 A <sub>DC</sub>	50 A <sub>DC</sub>	40 A <sub>DC</sub>
<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	optional, Smart Meter or Smart Power Control Box needed					
<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 Detection	Yes					
Residual Current Monitoring	Yes					
String Monitoring	Yes					
AC Output Over Current Protection	Yes					
AC Short Circuit Protection	Yes					
Grid Monitoring	Yes					
AFCI	Yes					
Overvoltage Category	II (DC), III (AC)					
DC / AC SPD	DC SPD Type II / AC SPD Type II					
<b>DISPLAY AND COMMUNICATION</b>						
Display	LED & APP (via Bluetooth)					
Communication	2×RS485 / WiFi					
<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 Input terminals	MC4(Staubli)					
AC Input terminals	OT Terminals (Support the AC cables Max. 240mm <sup>2</sup> )					
<b>CERTIFICATION</b>						
Safety / EMC	IEC62109-1/2, IEC 61000-6-1/2/3/4					
Grid Connection Standards	IEC61727&IEC62116, EN50549-1/2, CE10-21/16, VDE4105, VDE4110, NRS097, RD1699, RD661, RD413, UNE217002, UNE217001, RD244, NTS2.1, PPDS, NC RfG					

1: Single string per MPPT configuration

The specifications and features contained in this datasheet may deviate slightly from the actual product due to 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 further notice.

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