



THREE PHASE STRING INVERTER 15-25 kW

CSI-15K-T4001A-E | CSI-17K-T4001A-E |
CSI-20K-T4001A-E | CSI-23K-T4001A-E |
CSI-25K-T4001A-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 98.6% to provide high yield and significant BoS savings. With a wide operating range of 160-1000 VDC and 2 MPPTs, they are the ideal choice for maximum energy harvesting.



**Warranty,
extension up to 20 years**

KEY FEATURES

- Maximum efficiency of 98.6%
Maximum EU efficiency of 98.0%
- 2 MPPTs to achieve higher system efficiency
- 32 A MPPT supports multiple high-power modules
- Integrated DC switches
- Integrated AFCI function
- DC reverse polarity protection

HIGH RELIABILITY

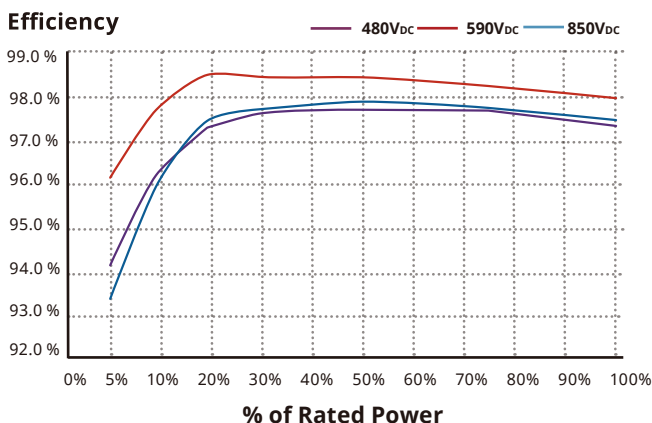
- Intelligent cooling technology
- SPD Type II for DC and AC
- Residual current monitoring

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-25K-T4001A-E



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
Product number	74002554	74002555	74002556	74002557	74002558
INPUT (DC)					
Max. Input Voltage	1100 V _{DC}				
Start-up DC Input Voltage	180 V _{DC}				
Rated Input Voltage	600 V _{DC}				
MPPT Voltage Range	160 - 1000 V _{DC}				
Max. String Input No.	4				
MPPT No.	2				
Max. Input Current per String ¹	20 A _{DC}				
Max. Input Current per MPPT	32 A _{DC}				
Max. DC Short-circuit Current per MPPT	40 A _{DC}				
OUTPUT (AC)					
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 _{AC} / 400 V _{AC}				
Grid Connection Type	3L / 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	optional, Smart Meter or Smart Power Control Box needed				
EFFICIENCY					
Max. Efficiency	98.5 %	98.5 %	98.6 %	98.6 %	98.6 %
EU Efficiency	98.0 %	98.0 %	98.0 %	98.0 %	98.0 %
ENVIRONMENT					
Protection Degree	IP66				
Cooling	Intelligent Air Cooling				
Operating Temperature Range	-30 °C to +60 °C				
Operating Humidity	0 - 100 % (non-condensing)				
Operating Altitude	4000 m (>3000 m derating)				
PROTECTION					
DC Switch	Yes				
Anti-Islanding Protection	Yes				
DC Reverse-Polarity Protection	Yes				
DC Insulation Resistance Detection	Yes				
Residual Current Monitoring	Yes				
AC Output Over Current Protection	Yes				
AC Short Circuit Protection	Yes				
Grid Monitoring	Yes				
AFCI	Yes				
DC/AC SPD	DC SPD Type II / AC SPD Type II				
DISPLAY AND COMMUNICATION					
Display	LED Indicators & APP (Bluetooth)				
Communication	WiFi, RS485				
MECHANICAL DATA					
Dimensions (W / H / D)	435 x 520 x 194 mm				
Weight	17 kg		19 kg		
DC Input terminals	MC4(Staubli)				
AC Input terminals	Quick Connection Plug				
CERTIFICATION					
Safety / EMC	IEC62109, IEC61000-6-1/2/3/4				
Grid Connection Standards	IEC61727 & IEC62116, EN50549-1, CEI0-21, NRS097, VDE4105, RD647, RD1699, RD661, RD413, UNE 217002, UNE 217001, RD 244, 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.