

THREE PHASE STRING INVERTER 40-60 kW

CSI-40K-T4001A-E | CSI-50K-T4001A-E | CSI-60K-T4001A-E



10
years

**Warranty,
extension up to 20 years**

NEW

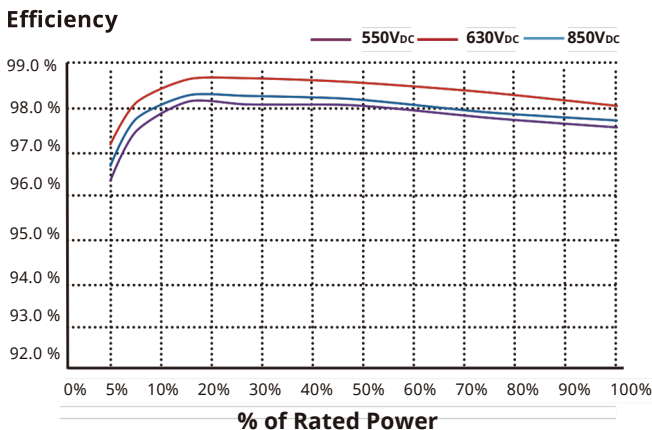
CSI Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string architecture for commercial and industrial rooftop applications. CSI inverters are easy to configure and have a high conversion efficiency of 98.7% to provide high yield and significant BoS savings. With a wide operating range of 200-1000 VDC and multiple MPPTs, they are the ideal choice for maximum energy harvesting.

KEY FEATURES

- Maximum efficiency of 98.7%
Maximum EU efficiency of 98.3%
- Multiple MPPTs design for complex application scenarios
- 32A MPPTs support multiple high-power modules
- Integrated DC switch
- Smart string monitoring
- Supports aluminum cable
- Integrated AFCI function
- DC reverse polarity protection

EFFICIENCY CURVE

CSI-60K-T4001A-E



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

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-40K-T4001A-E	CSI-50K-T4001A-E	CSI-60K-T4001A-E
Product number	74002599	74002600	74002601
INPUT (DC)			
Max. Input Voltage	1100 V _{DC}		
Start-up DC Input Voltage	195 V _{DC}		
Rated Input Voltage	600 V _{DC}		
MPPT Voltage Range	200 - 1000 V _{DC}		
MPPT No.	3	4	5
Max. String Input No.	6	8	10
Max. Input Current per String ¹	20 A _{DC}	20 A _{DC}	20 A _{DC}
Max. Input Current per MPPT	32 A _{DC}	32 A _{DC}	32 A _{DC}
Max. DC Short-circuit Current per MPPT	40 A _{DC}	40 A _{DC}	40 A _{DC}
OUTPUT (AC)			
Rated AC Output Power	40 kW	50 kW	60 kW
Max. AC Output Power (Apparent)	40 kVA	50 kVA	60 kVA
Rated Output Voltage	380 / 400 V _{AC}		
Grid Connection Type	3 L / N / PE		
Max. Output Current	60.8 A	76 A	91.2 A
Rated Output Frequency	50 / 60 Hz		
THDi	< 3 %		
Power Factor	0.8 leading ... 0.8 lagging		
ZeroExportSolution	optional, Smart Meter or Smart Power Control Box needed		
EFFICIENCY			
Max. Efficiency	98.7 %		
EU Efficiency	98.3 %		
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		
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/ACSPD	DC SPD Type II / AC SPD Type II		
DISPLAY AND COMMUNICATION			
Display	LED Indicators & APP		
Communication	2 × RS485 / WiFi		
MECHANICAL DATA			
Dimensions (W / H / D)	720 x 555 x 288 mm		
Weight	48 kg	50 kg	51 kg
DC Input terminals	M C 4(Staubli)		
AC Input terminals	OT Terminals		
CERTIFICATION			
Safety / EMC	IEC62109, IEC61000-6-1/2/3/4		
Grid Connection Standards	IEC61727 & IEC62116, EN50549-1, EN50549-2, CEI0-21, NRS097, VDE4105, VDE4110, 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.

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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.