



THREE PHASE STRING INVERTER 50-60KW

CSI-50K-T400 | CSI-60K-T400

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for commercial rooftop and small ground-mount applications. An NRTL approved, cost-effective alternative to central inverters, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.8% conversion efficiency, a wide operating range of 180-1000 V_{DC}, and 5 to 6 MPPTs for maximum energy harvest.



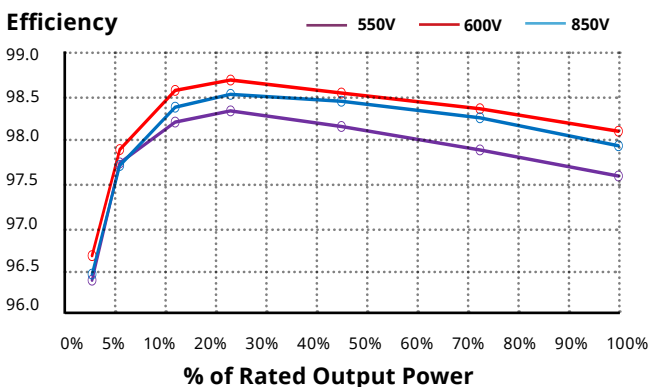
standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.3%
- 5 to 6 MPPTs to achieve higher system efficiency
- 16A input for each PV string
- Integrated DC Switches
- Smart string monitoring and IV curve diagnosis

EFFICIENCY CURVE

CSI-60K-T400GL03-E



For detailed information, please refer to the Installation Manual.

HIGH RELIABILITY

- Intelligent redundant fan-cooling
- SPD Type II on both DC and AC sides
- Leakage current repression technology
- Fuse free design
- DC reverse polarity protection

BROAD ADAPTIBILITY

- IP66 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Wide MPPT range for flexible string sizing
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

CSI SOLAR CO., LTD. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 46 GW deployed around the world since 2001.

CSI SOLAR CO., LTD.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-50K-T400GL03-E	CSI-60K-T400GL03-E
DC INPUT		
Max. DC Input Voltage	1100 V _{DC}	
Start-up DC Input Voltage/Power	195 V _{DC}	
Number of MPP Trackers	5	6
MPPT Voltage Range	180 - 1000 V _{DC}	
Max. Input Current (Imp)	160 A (32 A per MPPT)	192 A (32 A per MPPT)
Max. Short Circuit Current (Isc)	250 A (50 A per MPPT)	300 A (50 A per MPPT)
Number of DC Inputs	10 (2 per MPPT)	12 (2 per MPPT)
DC Switch	Integrated	
AC OUTPUT		
Rated AC Output Power	50 kW	60 kW
Max. AC Output Power	55 kW	66 kW
Rated Output Voltage	220 / 380 V _{AC} , 230 / 400 V _{AC}	
Grid Connection Type	3W / N / PE	
Rated Grid Output Current	76.0 A / 72.2 A	91.2 A / 86.6 A
Max Output Current	83.6 A	100.3 A
Rated Output Frequency	50 / 60 Hz	
Output Frequency Range*	45 - 55 / 55 - 65 Hz	
Power Factor	> 0.99 (0.8 leading ... 0.8 lagging)	
Current THD	< 3 %	
DC Injection Current	< 0.5 % of Rated Grid Output Current	
SYSTEM		
Max. Efficiency	98.7 %	
EU Efficiency	98.3 %	
Night Consumption	< 1 W	
Anti-PID Module	Optional	
ENVIRONMENT		
Protection Degree	IP66	
Cooling	Intelligent Redundant Cooling	
Operating Temperature Range	-25 °C to +60 °C	
Storage Temperature Range	-40 °C to +70 °C	
Operating Humidity	0 - 100 % condensing	
Operating Altitude	4000 m	
Audible Noise	< 55 dBA @ 1 m	
DISPLAY AND COMMUNICATION		
Display	LCD, 2 × 20 Z	
Communication	RS485, Optional: Wi-Fi, PLC	
MECHANICAL DATA		
Dimensions (W / H / D)	691 x 578 x 338 mm	
Weight	54.5 kg	
Installation Angle	0 - 15 Degrees from Vertical	
DC Inputs	MC4	
SAFETY		
Safety and EMC Standard	IEC 62109-1/2, IEC 61000-6-1/2/3/4	
Grid Standard	IEC 62116, IEC 61727, EN50549-1	

*The "Output Frequency Range" may differ according to specific grid standard.

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.

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