



# THREE PHASE STRING INVERTER 100-110 KW

## CSI-100K-T400 | CSI-110K-T400

CSI 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 98.7% conversion efficiency, a wide operating range of 180-1000 V<sub>DC</sub>, and 10 MPPTs for maximum energy harvest.



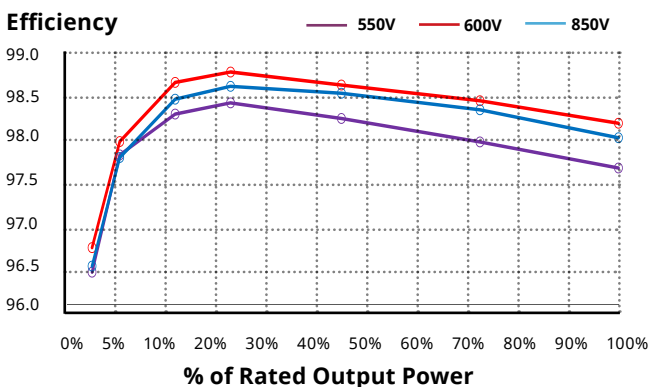
**standard warranty, extension up to 20 years**

### KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.3%
- 10 MPPTs to achieve higher system efficiency
- Up to 50% DC input oversize, 16A input for each PV string
- Integrated DC Switches
- Smart string monitoring and IV curve diagnosis

### EFFICIENCY CURVE

CSI-110K-T400GL03-E



### 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
- AFCI protection, proactively reduces fire risk
- Wide MPPT range for flexible string sizing
- Supports aluminium wire access to reduce cost
- Built-in PID recovery for better module performance (optional)

For detailed information, please refer to the Installation Manual.

**CSI SOLAR CO., LTD.** is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 63 GW of premium-quality solar modules across the world.

### CSI SOLAR CO., LTD.

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129 [www.csisolar.com](http://www.csisolar.com)

## SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-100K-T400GL03-E	CSI-110K-T400GL03-E
<b>DC INPUT</b>		
Max. DC Input Voltage	1100 V <sub>DC</sub>	
Start-up DC Input Voltage/Power	195 V <sub>DC</sub>	
Number of MPP Trackers	10	
MPPT Voltage Range	180 - 1000 V <sub>DC</sub>	
Max. Input Current (Imp)	320 A (32 A per MPPT)	
Max. Short Circuit Current (Isc)	500 A (50 A per MPPT)	
Number of DC Input	20 (2 per MPPT)	
DC Switch	Integrated	
<b>AC OUTPUT</b>		
Rated AC Output Power	100 kW	110 kW
Max. AC Output Power	110 kW	121 kW
Rated Output Voltage	220 / 380 V <sub>AC</sub> / 230 / 400 V <sub>AC</sub>	
Grid Connection Type	3W / N / PE	
Rated Grid Output Current	152.0 A / 144.3 A	167.1 A / 158.8 A
Max Output Current	167.1 A	183.8 A
Rated Output Frequency	50 / 60 Hz	
Power Factor	> 0.99 (0.8 leading ... 0.8 lagging)	
Current THD	< 3 %	
<b>SYSTEM</b>		
Max. Efficiency	98.7 %	
EU Efficiency	98.3 %	
Night Consumption	< 2 W	
Anti-PID Module	Optional	
<b>ENVIRONMENT</b>		
DC / AC SPD	DC SPD Type II / AC SPD Type II (AC Type I Optional)	
Protection Degree	IP66	
Cooling	Intelligent Redundant Cooling	
Operating Temperature Range	-25 °C to +60 °C	
Operating Humidity	0 - 100 % condensing	
Operating Altitude	4000 m	
<b>DISPLAY AND COMMUNICATION</b>		
Display	LCD	
Communication	RS485, Optional: Wi-Fi, PLC	
<b>MECHANICAL DATA</b>		
Dimensions (W / H / D)	1065 x 567 x 344.5 mm	
Weight	91 kg	
DC Connection	MC4	
AC Connection	OT Terminal	
<b>SAFETY</b>		
Safety and EMC Standard	IEC 62109-1/2, IEC 61000-6-2/3	
Grid Standard	IEC 62116, IEC 61727	

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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