



THREE PHASE STRING INVERTER 100-110 KW

CSI-100K-T400 | CSI-110K-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 98.7% conversion efficiency, a wide operating range of 180-1000 V_{DC}, and 10 MPPTs for maximum energy harvest.



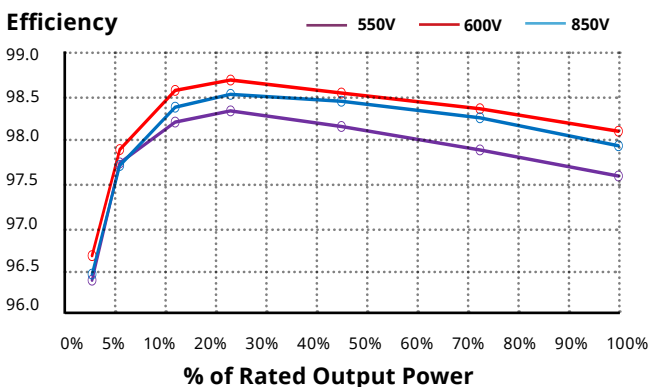
standard warranty, extension up to 20 years

KEY FEATURES

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

EFFICIENCY CURVE

CSI-110K-T400GL02-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-100K-T400GL02-E	CSI-110K-T400GL02-E
DC INPUT		
Max. PV Power	140 kW	140 kW
Max. DC Input Voltage		1100 V _{DC}
Start-up DC Input Voltage/Power		195 V _{DC}
Number of MPP Trackers		10
MPPT Voltage Range		180 - 1000 V _{DC}
Max. Input Current (Imp)		260 A (26 A per MPPT)
Max. Short Circuit Current (Isc)		400 A (40 A per MPPT)
Number of DC Inputs		20 (2 per MPPT)
DC Switch		Integrated
AC OUTPUT		
Rated AC Output Power	100 kW	110 kW
Max. AC Output Power	110 kW	121 kW
Rated Output Voltage*		220 / 380 V _{AC} , 230 / 400 V _{AC}
Grid Connection Type		3W / N / PE
Rated Grid Output Current	152.0 A	167.1 A
Max Output Current	167.1 A	183.8 A
Rated Output Frequency		50 / 60 Hz
Output Frequency Range*		47 - 52 / 57 - 62 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		< 2 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		< 65 dBA @ 1 m
DISPLAY AND COMMUNICATION		
Display		LCD, 2 × 20 Z
Communication		RS485 / WiFi Optional
MECHANICAL DATA		
Dimensions (W x H x D)		1065 x 567 x 344.5 mm
Weight		84 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, EN 50549-1

*The "Rated Output Voltage Range" and "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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