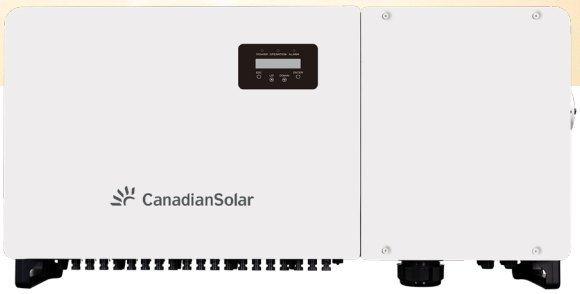
THREE PHASE STRING INVERTER 100-110 KW

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.

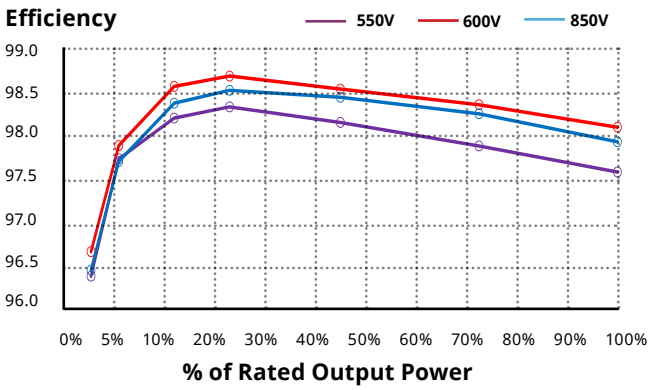
5 years standard warranty, extension up to 20 years

KEY FEATURES

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

EFFICIENCY CURVE

CSI-110K-T400GL02-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
- 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

CANADIAN SOLAR INC. 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.

For detailed information, please refer to the Installation Manual.

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com

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 / 380 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 / H / 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 61000-6-2/4	
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. Canadian Solar Inc. 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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