

THREE PHASE STRING INVERTER 75-100 KW

CSI-75K-T400 | CSI-100K-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 ten MPPTs for maximum energy harvest.



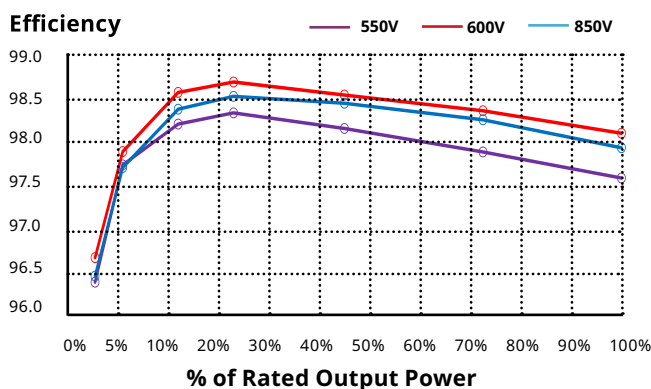
standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.3%
- Ten MPPTs to achieve higher system efficiency
- 13A input for each PV string
- Integrated DC Switches, AC switch optional

EFFICIENCY CURVE

CSI-110K-T400GL02-E



HIGH RELIABILITY

- Intelligent redundant fan-cooling
- Built in over-voltage and over-current protection
- Leakage current repression technology
- Fuse free design
- DC input reverse alarm

BROAD ADAPTIBILITY

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

CANADIAN SOLAR BRASIL 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 BRASIL

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-75K-T400GL02-E	CSI-100K-T400GL02-ZA
DC INPUT		
Max. PV Power		140kW
Max. DC Input Voltage		1100 V _{DC}
Start-up DC Input Voltage/Power		195 V _{DC}
Number of MPP Trackers	9	10
MPPT Voltage Range		180 - 1000 V _{DC}
Max. Input Current (Imp)	234 A (26 A per MPPT)	260A (26A per MPPT)
Max. Short Circuit Current (Isc)	360 A (40 A per MPPT)	400A (40A per MPPT)
Number of DC Inputs	18 (2 per MPPT)	20 (2 per MPPT)
DC Disconnection Type	Integrated	Load rated DC switch
AC OUTPUT		
Rated AC Output Power	75 kW	100 kW
Max. AC Output Power	75 kW	110 kW
Rated Output Voltage*		220/380 V _{AC}
Grid Connection Type		3W / N / PE
Rated Grid Output Current	114.0 A	152.0 A
Max Output Current	114.0 A	167.1 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 %
MPPT Efficiency		>99.5 %
Night Consumption		< 2 W
Anti-PID Module		Optional
ENVIRONMENT		
DC/AC SPD	DC SPD Type II / AC SPD Type II (Type I Optional)	
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	WIFI/RS485 Optional	
MECHANICAL DATA		
Dimensions (W / H / D)	1050 x 567 x 314.5 mm	1065 x 567 x 344.5 mm
Weight	82 kg	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	

*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.