

# THREE PHASE STRING INVERTER 25-40 KW

**CSI-25K-T400 | CSI-30K-T400**  
**CSI-33K-T400 | CSI-36K-T400 | CSI-40K-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 MLPE, 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<sub>DC</sub>, and 4 MPPTs for maximum energy harvest.



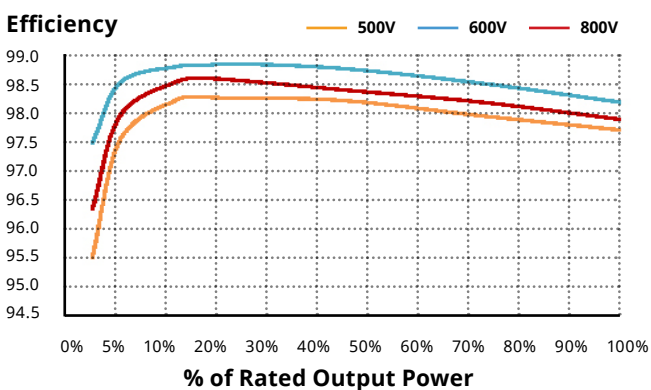
**standard warranty, extension up to 20 years**

## KEY FEATURES

- Maximum efficiency of 98.8%, Maximum EU efficiency of 98.3%
- 4 MPPTs to achieve higher system efficiency
- Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- Up to 30% DC input oversize, 13A input for each PV string

## EFFICIENCY CURVE

CSI-40K-T400GL02-E



For detailed information, please refer to the Installation Manual.

## CANADIAN SOLAR INC.

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## HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built-in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection
- Fuse free design

## BROAD ADAPTIBILITY

- IP65 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.

**SYSTEM/TECHNICAL DATA**

MODEL NAME	CSI-25K-T400GL02-E	CSI-30K-T400GL02-E	CSI-33K-T400GL02-E	CSI-36K-T400GL02-E	CSI-40K-T400GL02-E
<b>DC INPUT</b>					
Max. PV Power	33 kW	39 kW	43 kW	47 kW	52 kW
Max. DC Input Voltage			1100 V <sub>DC</sub>		
Start-up DC Input Voltage/Power			180 V <sub>DC</sub>		
Number of MPP Trackers	3			4	
MPPT Voltage Range			200 - 1000 V <sub>DC</sub>		
Max. Input Current (Imp)	78 A (26 A per MPPT)			104 A (26 A per MPPT)	
Max. Short Circuit Current (Isc)	120 A (40 A per MPPT)			160 A (40 A per MPPT)	
Number of DC Inputs	6 (2 per MPPT)			8 (2 per MPPT)	
DC Switch	Integrated				
<b>AC OUTPUT</b>					
Rated AC Output Power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. AC Output Power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated Output Voltage*			400 V <sub>AC</sub>		
Grid Connection Type			3 W / N / PE		
Rated Grid Output Current	36 A	43.3 A	47.6 A	51.9 A	57.7 A
Max Output Current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 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		
<b>SYSTEM</b>					
Max. Efficiency			98.8 %		
EU Efficiency			98.3 %		
Night Consumption			< 1 W		
Anti-PID Module			Optional		
<b>ENVIRONMENT</b>					
Protection Degree			IP65		
Cooling			Natural Convection 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			< 30 dBA @ 1 m		
<b>DISPLAY AND COMMUNICATION</b>					
Display			LCD, 2 × 20 Z		
Communication			RS485 / WIFI Optional		
<b>MECHANICAL DATA</b>					
Dimensions (W / H / D)			647 x 629 x 252 mm		
Weight			45 kg		
Installation Angle			0 – 15 Degrees from Vertical		
DC Inputs			MC4		
<b>SAFETY</b>					
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.

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