

# THREE PHASE STRING INVERTER 25-40 KW

**CSI-25K-T400 | CSI-30K-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 four MPPTs for maximum energy harvest.



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

## KEY FEATURES

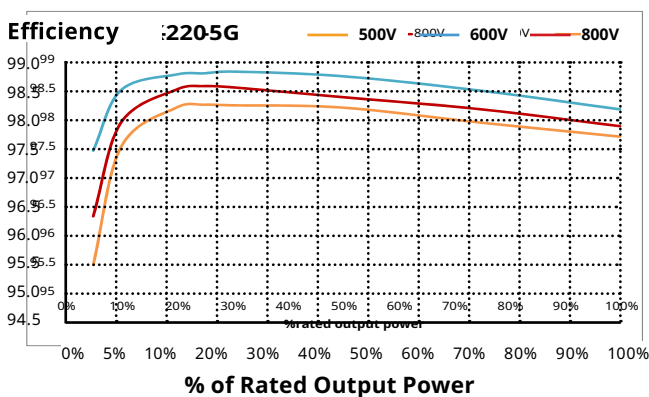
- Maximum efficiency of 98.8%, Maximum EU efficiency of 98.3%
- Four MPPTs to achieve higher system efficiency
- Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- Up to 30% DC input oversize, 13A input for each PV sting

## 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

## EFFICIENCY CURVE

CSI-40K-T400GL02-E



## BROAD ADAPTIBILITY

- IP65 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-25K-T400GL02-E	CSI-30K-T400GL02-E	CSI-40K-T400GL02-E
<b>DC INPUT</b>			
Max. PV Power	33kW	39kW	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)	78A (26A per MPPT)		104A (26A per MPPT)
Max. Short Circuit Current (Isc)	120A (40A per MPPT)		160A (40A per MPPT)
Number of DC Inputs	6 (2 per MPPT)		8 (2 per MPPT)
DC Disconnection Type	Load rated DC switch		
<b>AC OUTPUT</b>			
Rated AC Output Power	25 kW	30 kW	40 kW
Max. AC Output Power	27.5 kW	33 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	57.7 A
Max Output Current	41.8 A	50.2 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 %	
MPPT Efficiency		>99.5 %	
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, 2x20 Z	
Communication		WiFi/RS485 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		IEC62109-1/2, IEC61000-6-1/2/3/4	
Grid Standard		IEC62116, IEC61727	

\*The "Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standard.

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, Canadian Solar Inc. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

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.