



# THREE PHASE STRING INVERTER 250 KW

## CSI-250K-T800

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for commercial rooftop and medium 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 99.0% conversion efficiency, a wide operating range of 600-1500 V<sub>DC</sub>, and 14 MPPTs for maximum energy harvest.



standard warranty, extension up to 20 years

### KEY FEATURES

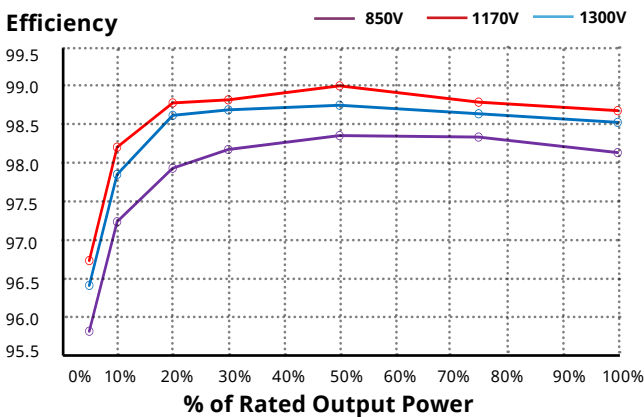
- Maximum efficiency of 99.0%
- EU efficiency of 98.7%
- 14 MPPTs to achieve higher system efficiency
- PLC/RS-485 multiple communication modes, flexible monitoring

### HIGH RELIABILITY

- IP66 protection level
- Intelligent redundant air cooling design
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection

### EFFICIENCY CURVE

CSI-250K-T800GL02-E



### BROAD ADAPTIBILITY

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

For detailed information, please refer to the Installation Manual.

**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**

<b>MODEL NAME</b>	<b>CSI-250K-T800GL03-E</b>
<b>DC INPUT</b>	
Max. DC Input Voltage	1500 V <sub>DC</sub>
Start-up DC Input Voltage/Power	500 V <sub>DC</sub>
Number of MPP Trackers	12
MPPT Voltage Range	480 - 1500 V <sub>DC</sub>
Max. Input Current (Imp)	12 x 30 A
Max. Short Circuit Current (Isc)	12 x 50 A
Number of DC Inputs	12/ 24
DC Switch	Integrated
<b>AC OUTPUT</b>	
Rated AC Output Power	250kW@30°C / 235kW@40°C / 220kW@50°C
Max. AC Output Power	250 kW
Rated Output Voltage <sup>1</sup>	3/PE, 800 V <sub>AC</sub>
Grid Connection Type	3W / N / PE
Max Output Current	180.4 A
Rated Output Frequency	50 / 60 Hz
Output Frequency Range <sup>2</sup>	45 - 55 Hz / 55 - 65 Hz
Power Factor	> 0.99 (0.8 leading ... 0.8 lagging)
Current THD	< 3%
DC Injection Current	< 0.5 % I <sub>n</sub>
<b>SYSTEM</b>	
Max. Efficiency	99.00 %
MPPT Efficiency	99.50 %
Night Consumption	< 2 W
Anti-PID Module	Optional
<b>ENVIRONMENT</b>	
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 +80 °C
Operating Humidity	0 - 100 % condensing
Operating Altitude	4000 m
Audible Noise	≤ 65 dBA @ 1 m
<b>DISPLAY AND COMMUNICATION</b>	
Display	LCD, 2 × 20 Z
Communication	RS485, Optional - PLC
<b>MECHANICAL DATA</b>	
Dimensions (W / H / D)	1125 x 770 x 384 mm
Weight <sup>3</sup>	113 kg
DC Inputs	MC4
<b>SAFETY</b>	
Safety and EMC Standard	IEC 62109-1/2, IEC 61000-6-2/4
Grid Standard	IEC 62116, IEC 61727

1. "Output Voltage Range" may differ according to specific grid standard.
2. "Output Frequency Range" may differ according to specific grid standard.
3. "Net Weight" tolerance ± 1kg

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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