



THREE PHASE STRING INVERTER 250 KW

CSI-250K-T800

CSI 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 480-1500 V_{DC}, and 12 MPPTs for maximum energy harvest.



standard warranty, extension up to 20 years

KEY FEATURES

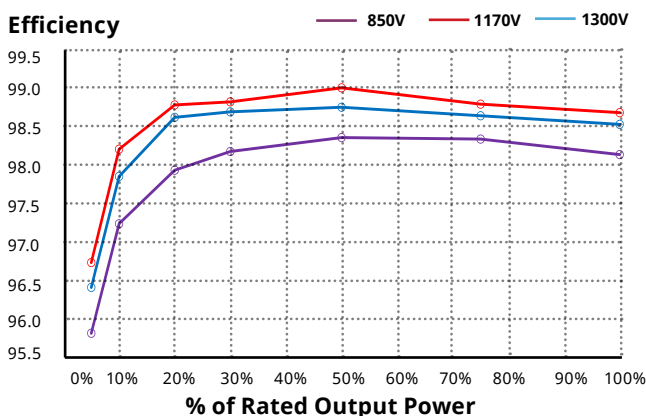
- Maximum efficiency of 99.0%
- EU efficiency of 98.7%
- 12 MPPTs to achieve higher system efficiency
- PLC/RS-485 multiple communication modes, flexible monitoring

HIGH RELIABILITY

- IP66 and C5 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. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/ price ratio in the IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 55 GW deployed around the world since 2001.

CSI SOLAR CO., LTD.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-250K-T800GL03-E
DC INPUT	
Max. DC Input Voltage	1500 V _{DC}
Start-up DC Input Voltage/Power	500 V _{DC}
Number of MPP Trackers	12
MPPT Voltage Range	480 - 1500 V _{DC}
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
AC OUTPUT	
Rated AC Output Power	250kW@30°C / 235kW@40°C / 220kW@50°C
Max. AC Output Power	250 kW
Rated Output Voltage ¹	3/PE, 800 V _{AC}
Grid Connection Type	3W / N / PE
Max Output Current	180.4 A
Rated Output Frequency	50 / 60 Hz
Output Frequency Range ²	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 _n
SYSTEM	
Max. Efficiency	99.00 %
MPPT Efficiency	99.50 %
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 & C5
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
DISPLAY AND COMMUNICATION	
Display	LCD, 2 × 20 Z
Communication	RS485, Optional - PLC
MECHANICAL DATA	
Dimensions (W / H / D)	1125 x 770 x 384 mm
Weight ³	113 kg
DC Inputs	MC4
SAFETY	
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

4. Any system with a DC/AC ratio being less than 2 is within our warranty scope. Please contact local CSI Solar technical support for further confirmation if otherwise.

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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