

THREE PHASE STRING INVERTER 75-100 KW

CSI-75K-T480 | CSI-100K-T480

Canadian Solar's grid-tied, transformer-less inverters help accelerate the use of three-phase 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 99.1% conversion efficiency and a wide operating range for maximum energy harvest.



Tigo Enhanced for rapid shutdown



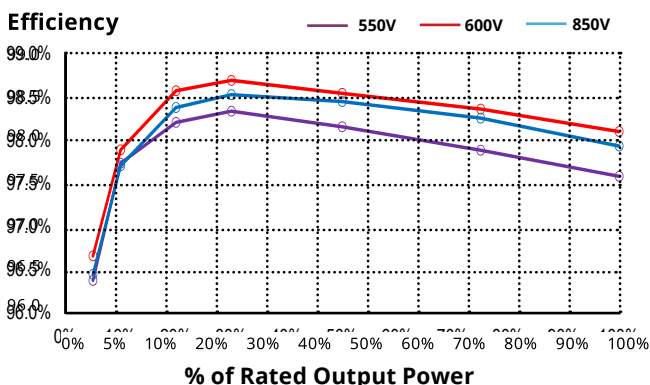
Standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 99 %, Maximum EU efficiency of 98.5 %
- 8 / 9 /10 MPPT design with precise MPPT algorithm
- 13A input for each PV string
- Integrated DC Switches
- Smart string monitoring and IV curve diagnosis
- Integrated AFCI (DC arc-fault circuit protection)
- Rapid Shutdown: integrated Tigo RSS or SunSpec transmitter

EFFICIENCY CURVE

CSI-100K-T480GL02-U



For detailed information, please refer to the Installation Manual.

HIGH RELIABILITY

- Intelligent redundant fan-cooling
- SPD type II on both DC and AC sides
- Leakage current repression technology
- Fuse free design
- DC reverse polarity protection

BROAD ADAPTIBILITY

- NEMA 4X (IP65), 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 (USA), INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 55 GW deployed around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

CANADIAN SOLAR (USA), INC.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-75K-T480GL02-U	CSI-100K-T480GL02-U
DC INPUT		
Max. PV Power	112 kW	140 kW
Max. DC Input Voltage	1000 V _{DC}	
Start-up DC Input Voltage/Power	195 V _{DC}	
Number of MPP Trackers	8	10
MPPT Voltage Range	180 - 1000 V _{DC}	
Max. Input Current (Imp)	208 A (26 A per MPPT)	260 A (26 A per MPPT)
Max. Short Circuit Current (Isc)	320 A (40 A per MPPT)	400 A (40 A per MPPT)
Number of DC Inputs	16 (2 per MPPT)	20 (2 per MPPT)
DC / AC Disconnection	Integrated	
AC OUTPUT		
Rated AC Output Power	75 kW	100 kW
Max. AC Output Power	75 kW	100 kW
Rated Output Voltage ¹	480 V _{AC}	
Grid Connection Type	3W / N / PE	
Max Output Current	90.2 A	120.3 A
Rated Output Frequency	60 Hz	
Output Frequency Range ²	59.5 - 60.5 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 %	99.0 %
EU Efficiency	98.3 %	98.5 %
Night Consumption	< 2 W (Night)	
Anti-PID Module	Optional	
ENVIRONMENT		
Protection Degree	NEMA 4X (IP65)	
AFCI (DC arc-fault circuit protection)	Integrated	
Cooling	Intelligent Redundant Fan - cooling	
Operating Temperature Range	-13 °F to +140 °F / -25 °C to +60 °C	
Storage Temperature Range	40 °F to +176 °F / -40 °C to +80 °C	
Operating Humidity	0 - 100 % condensing	
Operating Altitude	13,123.4 ft / 4000 m	
Audible Noise	< 65 dBA @ 1 m	
DISPLAY AND COMMUNICATION		
Display	LCD	
Communication	RS 485, Optional: WiFi, GPRS, Ethernet, PLC	
MECHANICAL DATA		
Dimensions (W / H / D)	1065 x 567 x 344.5 mm / 41.9 x 22.3 x 13.6 inch	
Weight ³	85 kg / 187.4 lbs	
Installation Angle	0 – 15 Degrees from Vertical	
DC Inputs	MC4	
SAFETY		
Safety and EMC Standard	UL1741 SA, UL1998, UL 1699B, CSA-C22.2 No. 107.1-01, IEEEE1547, FCC PART 15	
Grid Standard	IEEEE1547, Rule 21 phase I&II&III	

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 specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, CSI Solar Co., LTD. 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.