NEW

CanadianSolar

THREE PHASE STRING INVERTER 25-40 KW

CSI-25K-T480GL01-UB | CSI-30K-T480GL01-UB
CSI-36K-T480GL01-UB | CSI-40K-T480GL01-UB

Canadian Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string 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 98.6% conversion efficiency, a wide operating range of 200-800 V_{DC}, and four MPPTs for maximum energy harvest.

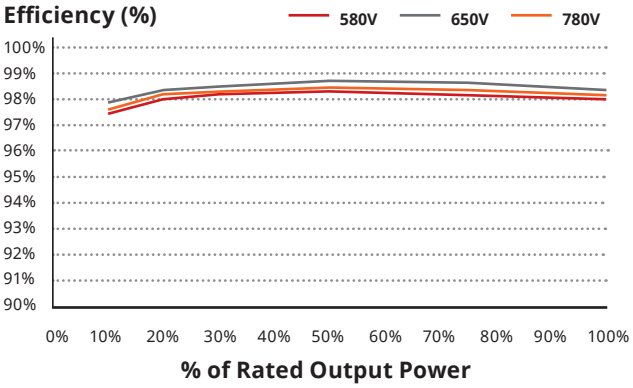
10 years **standard warranty, extension up to 20 years**

KEY FEATURES

- Maximum efficiency of 98.6%, CEC efficiency of 98.3%
- 4 MPPTs to achieve higher system efficiency
- Transformerless design
- High switching frequency and ultra fast MPPT (<5 sec.) for maximum efficiency over a wide load range
- Compatible with SunSpec or Tigo Transmitter

EFFICIENCY CURVE

CSI-40KTL-GS-FL@480 V



*For detailed information, please refer to the Installation Manual.

HIGH RELIABILITY

- Advanced thermal design
- Ground-fault detection and interruption circuit
- AFCI Integrated (per UL1699B, factory enabled option)

BROAD ADAPTIBILITY

- NEMA 4X (IP65), outdoor application
- Utility interactive controls: active power derating, reactive power control and over frequency derating
- Separable wiring box design
- Integrated DC and AC load rated disconnects
- Wide MPPT range for flexible string sizing
- 90 degree installation angle
- AC terminals compatible with copper and aluminum conductors (Al with bimetallic terminal)
- Supports up to 8 DC string inputs (2 per MPPT)

CSI SOLAR (USA), CO., LTD. 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 46 GW deployed around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

CSI SOLAR (USA) CO., LTD.

3000 Oak Road, Suite 400, Walnut Creek, CA 94597, USA | www.csisolar.com/na | sales.us@csisolar.com

SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-25K-T480GL01-UB	CSI-30K-T480GL01-UB	CSI-36K-T480GL01-UB	CSI-40K-T480GL01-UB
DC INPUT				
Max. PV Power	37.5 kW (13.5 kW / MPPT)	45 kW (13.5 kW / MPPT)	54 kW (13.5 kW / MPPT)	54 kW (13.5 kW / MPPT)
Max. DC Input Voltage	1000 V_{DC}			
Operating DC Input Voltage Range	200-800 V_{DC}			
Start-up DC Input Voltage/Power	350 V			
Number of MPP Trackers	4			
MPPT Voltage Range	347-800 V_{DC}	417-800 V_{DC}	500-800 V_{DC}	556-800 V_{DC}
Operating Current (Imp)	72 A (18 A per MPPT)			
Max. Input Current (Isc)	112.4 A (28.1 A per MPPT)			
Number of DC Imputs	8 (2 per MPPT)			
DC Disconnection Type	Load rated DC switch			
AC OUTPUT				
Rated AC Output Power	25 kW	30 kW	36 kW	40 kW
Max. AC Output Power	27.5 kW	33 kW	40 kW	44 kW
Rated Output Voltage	480 V_{AC}			
Output Voltage Range*	422.4 - 528 V_{AC}			
Grid Connection Type	3 Φ/PE			
Nominal AC Output Current @480 Vac	30.1 A	36.1 A	43.3 A	48.1 A
Rated Output Frequency	60 Hz			
Output Frequency Range*	59.5 - 60.5 Hz			
Power Factor	1 default (±0.8 adjustable)			
Current THD	< 3 %			
AC Disconnection Type	Load rated AC switch			
SYSTEM				
Topology	Transformerless			
Max. Efficiency	98.6 %			
CEC Efficiency	98.3 %			
Night Consumption	< 1 W			
ENVIRONMENT				
Protection Degree	NEMA 4X			
Cooling	Natural Convection Cooling			
Operating Temperature Range	-13 °F to +140 °F / -25 °C to +60 °C			
Storage Temperature Range	-40 °F to +158 °F / -40 °C to +70 °C			
Operating Humidity	0 - 100 % condensing			
Operating Altitude	13,123.4 ft / 4000 m			
Audible Noise	<30 dBA @ 1 m			
DISPLAY AND COMMUNICATION				
Display	LCD + LED			
Communication	Standard: RS485 (Modbus)			
MECHANICAL DATA				
Dimensions (W / H / D)	20.9 x 45.9 x 14.1 in / 530 x 1167 x 358 mm			
Weight	147.7 lb / 67 kg			
Installation Angle	90 degrees from horizontal			
DC Inputs	20 A standard			
SAFETY				
Safety and EMC Standard	UL 1741:2010 IEEE 1547.1:2005 IEEE 1547A:2014 UL1699B, CSA C22.2#107.1:2016 Ed.4			
Grid Standard	IEEE1547:2003			
Smart-Grid Features	Voltage-Ride Thru, Frequency-Ride Thru, Soft-Start, Volt-Var, Frequency-Watt, Volt-Watt			

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.

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

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.