

THREE PHASE STRING INVERTER 125 KW

CSI-125K-T600



Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for 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, a wide operating range of 860-1450 V_{DC} and maximum energy harvest



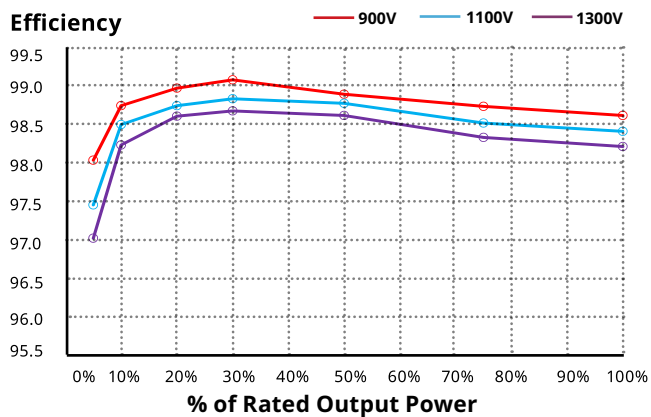
standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 99.1%, CEC efficiency of 98.6%
- Single MPPT for higher conversion efficiency
- Transformerless design
- PID mitigation capability

EFFICIENCY CURVE

CSI-125K-T600GL02-U



For detailed information, please refer to the Installation Manual.

HIGH RELIABILITY

- Intelligent redundant fan-cooling
- Built-in over-voltage and over-current protection
- Leakage current repression technology

BROAD ADAPTIBILITY

- NEMA 4X (IP65), outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC and AC disconnects
- Wide MPPT range for flexible string sizing
- AC terminals compatible with copper and aluminum conductors
- Single DC input for centralized inverter location designs

CANADIAN SOLAR INC. 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.

CANADIAN SOLAR INC.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-125K-T600GL02-U
DC INPUT	
Max. PV Power	187.5 kW
Max. DC Input Voltage	1500 V _{DC}
Start-up DC Input Voltage/Power	900 V _{DC}
Number of MPP Trackers	1
MPPT Voltage Range	860 - 1450 V _{DC}
Max. Input Current (Imp)	150 A
Max. Short Circuit Current (Isc)	300 A
Number of DC Inputs	1
DC / AC Disconnection	Integrated
AC OUTPUT	
Rated AC Output Power	125 kW
Max. AC Output Power	125 kW
Rated Output Voltage	600 V _{AC}
Rated Output Voltage Range*	528 - 660 V _{AC}
Grid Connection Type	3W / N / PE
Rated Grid Output Current	120 A
Rated Output Frequency	60 Hz
Output Frequency Range*	55 - 65 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	99.1 %
EU Efficiency	98.6 %
Night Consumption	< 3 W (without anti-PID)
Anti-PID Module	Optional
ENVIRONMENT	
Protection Degree	NEMA 4X (IP65)
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
DISPLAY AND COMMUNICATION	
Display	LCD
Communication	RS485, Ethernet, Optional: PLC
MECHANICAL DATA	
Dimensions (W / H / D)	942 x 733 x 311 mm / 37.1 x 28.9 x 12.2 inch
Weight	84 kg / 185.2 lbs
Installation Angle	0 ~ 15 Degrees from Vertical
SAFETY	
Safety and EMC Standard	UL1741 SA, UL1998, CSA-C22.2 No. 107.1-01, IEE1547, FCC PART 15
Grid Standard	IEEE1547, Rule 21 phase I&II&III

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

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. Canadian Solar Inc. 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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