

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 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, a wide operating range of 860-1450 V_{DC}, and maximum energy harvest.



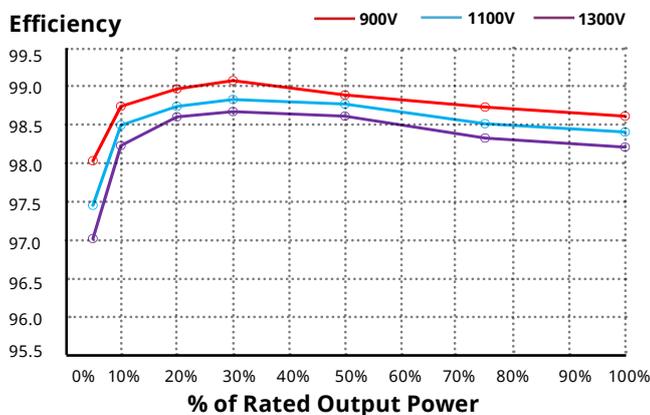
standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 99.1%, Maximum EU efficiency of 98.6%
- Single MPPT for higher conversion efficiency
- Transformerless design
- PID mitigation capability
- Integrated DC Switches, AC switch optional

EFFICIENCY CURVE

CSI-125K-T600GL02-E



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
- DC input reverse alarm

BROAD ADAPTIBILITY

- IP65 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC load rated disconnects
- Wide MPPT range for flexible string sizing
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

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-E
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}
Grid Connection Type	3W / N / PE
Rated Grid Output Current	120 A
Max Output Current	120 A
Rated Output Frequency	50 / 60 Hz
Output Frequency Range*	45 - 55 / 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	IP65
Cooling	Intelligent Redundant Fan-cooling
Operating Temperature Range	-25 ° C to +60 ° C
Storage Temperature Range	-40 ° C to +70 ° C
Operating Humidity	0 - 100 % condensing
Operating Altitude	4000 m
DISPLAY AND COMMUNICATION	
Display	LCD, 2×20 Z
Communication	RS485, Ethernet, Optional: PLC
MECHANICAL DATA	
Dimensions (W / H / D)	942 x 733 x 311 mm
Weight	84 kg
Installation Angle	0~15 Degrees from Vertical
DC Inputs	MC4
SAFETY	
Safety and EMC Standard	IEC 62109-1/2, IEC 61000-6-2/4
Grid Standard	IEC 62116, IEC 61727

*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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