

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.



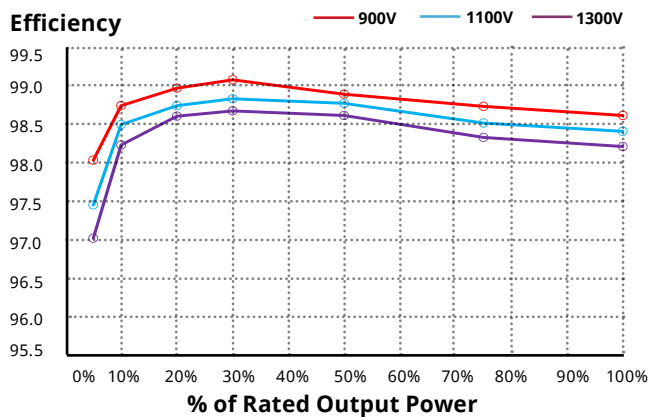
standard warranty, extension up to 20 years

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

CSI SOLAR CO., LTD. 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.

CSI SOLAR CO., LTD.

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SYSTEM/TECHNICAL DATA

| MODEL NAME | CSI-125K-T600GL02-U |
|---|---|
| DC INPUT | |
| 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 ¹ | 528 - 660 V _{AC} |
| Grid Connection Type | 3W / N / PE |
| Rated Grid Output Current | 120 A |
| Rated Output Frequency | 60 Hz |
| Output Frequency Range ² | 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 ³ | 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 |

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 ± 1 kg

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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