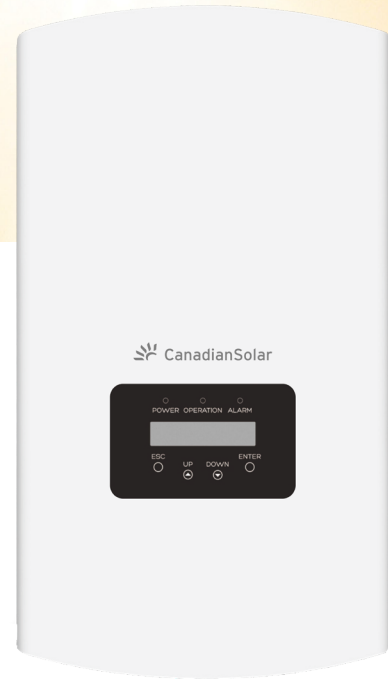


THREE PHASE STRING INVERTER 15-20 KW

CSI-15K-T400 | CSI-20K-T400

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for residential and commercial rooftop applications. An NRTL approved, cost-effective alternative to MLPE, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.7% conversion efficiency, a wide operating range of 160-850 V_{DC}, and two MPPTs for maximum energy harvest.



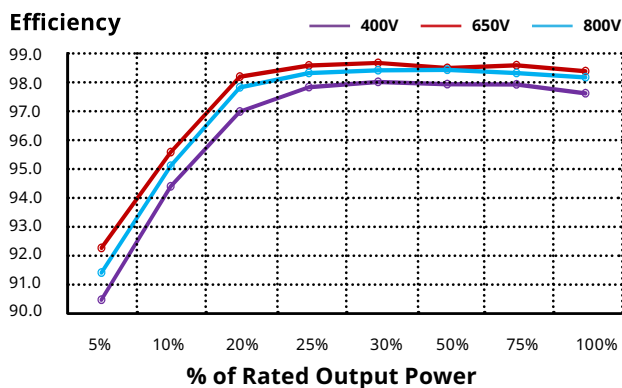
Standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.1%
- Two MPPTs to achieve higher system efficiency
- Strings intelligent monitoring
- Up to 20% DC input oversize

EFFICIENCY CURVE

CSI-20K-T400GL01-E



HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection
- Fuse free design

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 BRASIL 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.

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

CANADIAN SOLAR BRASIL

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SYSTEM/TECHNICAL DATA		
MODEL NAME	CSI-15K-T400GL01-E	CSI-20K-T400GL01-E
DC INPUT		
Max. DC Power	18kW	24kW
Max. DC Input Voltage	1000 V _{DC}	
Start-up DC Input Voltage/Power	180 V _{DC}	
Number of MPP Trackers	2	
MPPT Voltage Range	160 - 850V _{DC}	
Max. Input Current (Imp)	22A/22A	
Max. Short Circuit Current (Isc)	34.3A/34.3A	
Number of DC Inputs	2/4	
DC Disconnection Type	Load rated DC switch	
AC OUTPUT		
Rated AC Output Power	15 kW	20 kW
Max. AC Output Power	16.5 kW	22 kW
Rated Output Voltage	220/380 V _{AC} *, 230/400 V _{AC}	
Grid Connection Type	3 W / N / PE	
Rated Grid Output Current	22.8A / 21.7A	30.4A / 28.9A
Max Output Current	23.8 A	31.8 A
Rated Output Frequency	50/60 Hz	
Output Frequency Range*	45-55 Hz/55-65 Hz	
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)	
Current THD	< 1.5%	
DC Injection Current	< 0.5 % of Rated Grid Output Current	
SYSTEM		
Max. Efficiency	98.7%	
EU Efficiency	98.1%	
MPPT Efficiency	>99.5%	
Night Consumption	< 1 W	
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	
Audible Noise	<60 dBA @ 1 m	
DISPLAY AND COMMUNICATION		
Display	LCD, 2×20 Z	
Communication	WIFI/RS485 Optional	
MECHANICAL DATA		
Dimensions (W / H / D)	563 x 310 x 219 mm	
Weight	18.9 kg	19.8 kg
Installation Angle	0~15 Degrees from Vertical	
DC Inputs	MC4	
SAFETY		
Safety and EMC Standard	IEC62109-1/-2, EN61000-6-2, EN61000-6-3	
Grid Standard	IEC61727, AS777	

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

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.

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.