

THREE PHASE STRING INVERTER 12-20 KW

CSI-12K-3P | CSI-15K-3P

CSI-17K-3P | CSI-20K-3P



Max. efficiency up to 98.7%, Wide input voltage range



Dual maximum power point tracking



Flexible communication connection: supports RF, WiFi, Ethernet



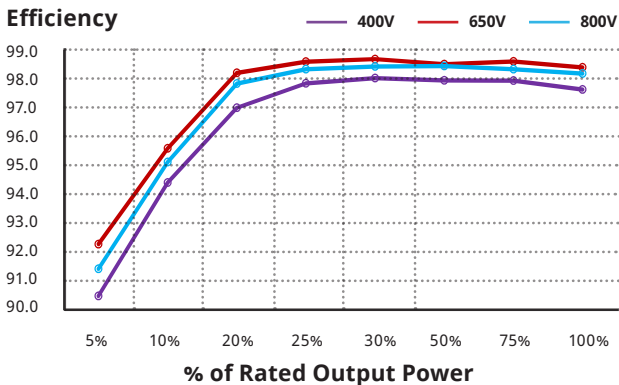
Transformerless topology



Standard warranty, extension up to 20 years

EFFICIENCY CURVE

CSI-20K-T400GL01-E



BROAD ADAPTABILITY

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



CSI Cloud

Log in to the CSI Cloud dashboard anytime from your smart phone or laptop to see:

- Your PV system's performance
- Your solar generation
- Faults and warning diagnostics



Energy Meter

Add the energy meter to your main switchboard to see:

- Your household energy usage
- Net electricity sold or bought from your provided
- Improve your loads usage

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.

For detailed information, please refer to the Installation Manual.

CANADIAN SOLAR INC.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-12K-T400GL01-E	CSI-15K-T400GL01-E	CSI-17K-T400GL01-E	CSI-20K-T400GL01-E
DC INPUT				
Max. DC Power	14.5kW	18kW	20.4kW	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	N/A			
AC OUTPUT				
Rated AC Output Power	12 kW	15 kW	17 kW	20 kW
Max. AC Output Power	13.2 kW	16.5 kW	18.7 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	18.2A / 17.3A	22.8A / 21.7A	25.8A / 24.6A	30.4A / 28.9A
Max Output Current	19.1 A	23.8 A	27 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%			
Night Consumption	< 1 W			
ENVIRONMENT				
Protection Degree	IP65			
Cooling	Forced Ventilation			
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, 2x20 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, EN61000-6-1/2/3/4			
Grid Standard	AS4777-2:2015, IEC61727, IEC62116			

*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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