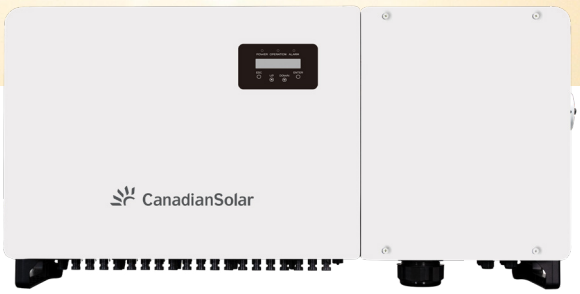
THREE PHASE STRING INVERTER 75-110 KW



CSI-75K-T400 | CSI-100K-T400 | CSI-110K-T400

CSI 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 98.7% conversion efficiency, a wide operating range of 180-1000 V_{DC}, and 10 MPPTs for maximum energy harvest.

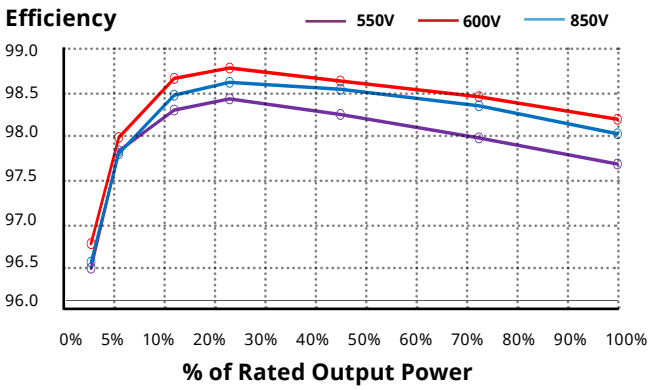
5 years standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.3%
- 10 MPPTs to achieve higher system efficiency
- 16A input for each PV string
- Integrated DC Switches
- Smart string monitoring and IV curve diagnosis

EFFICIENCY CURVE

CSI-110K-T400GL03-E



HIGH RELIABILITY

- Intelligent redundant fan-cooling
- SPD type II on both DC and AC sides
- Leakage current repression technology
- Fuse free design
- DC reverse polarity protection

BROAD ADAPTIBILITY

- IP66 rated for outdoor application
- AFCI protection, proactively reduces fire risk
- Wide MPPT range for flexible string sizing
- Supports aluminium wire access to reduce cost
- Built-in PID recovery for better module performance (optional)

CSI SOLAR CO., LTD. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 63 GW of premium-quality solar modules across the world.

For detailed information, please refer to the Installation Manual.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-75K-T400GL03-E	CSI-100K-T400GL03-E	CSI-110K-T400GL03-E
DC INPUT			
Max. DC Input Voltage	1100 V_{DC}		
Start-up DC Input Voltage/Power	195 V_{DC}		
Number of MPP Trackers	9	10	
MPPT Voltage Range	180 - 1000 V_{DC}		
Max. Input Current (Imp)	288 A (32 A per MPPT)	320 A (32 A per MPPT)	
Max. Short Circuit Current (Isc)	450 A (50 A per MPPT)	500 A (50 A per MPPT)	
Number of DC Input	18 (2 per MPPT)	20 (2 per MPPT)	
DC Switch	Integrated		
AC OUTPUT			
Rated AC Output Power	75 kW	100 kW	110 kW
Max. AC Output Power	75kW	110 kW	121 kW
Rated Output Voltage	220 / 380 V_{AC}	220 / 380 V_{AC}, 230 / 400 V_{AC}	
Grid Connection Type	3W / N / PE		
Rated Grid Output Current	114 A	152.0 A / 144.3 A	167.1 A / 158.8 A
Max Output Current	114 A	167.1 A	183.8 A
Rated Output Frequency	50 / 60 Hz		
Power Factor	> 0.99 (0.8 leading ... 0.8 lagging)		
Current THD	< 3 %		
SYSTEM			
Max. Efficiency	98.7 %		
EU Efficiency	98.3 %		
Night Consumption	< 2 W		
Anti-PID Module	Optional		
ENVIRONMENT			
DC / AC SPD	DC SPD Type II / AC SPD Type II	DC SPD Type II / AC SPD Type II (AC Type I Optional)	
Protection Degree	IP66		
Cooling	Intelligent Redundant Cooling		
Operating Temperature Range	-25 °C to +60 °C		
Operating Humidity	0 - 100 % condensing		
Operating Altitude	4000 m		
DISPLAY AND COMMUNICATION			
Display	LCD		
Communication	RS485, Optional: Wi-Fi, PLC		
MECHANICAL DATA			
Dimensions (W / H / D)	1050 x 567 x 314.5 mm	1065 x 567 x 344.5 mm	
Weight	82 kg	91 kg	
DC Connection	MC4		
AC Connection	OT Terminal		
SAFETY			
Safety and EMC Standard	IEC 62109-1/2, IEC 61000-6-2/3		
Grid Standard	IEC 62116, IEC 61727		

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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