

# THREE PHASE STRING INVERTER 15-30 KW

**CSI-15K-T220 | CSI-20K-T220**  
**CSI-25K-T220 | CSI-30K-T220**

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 MLPE, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.4% conversion efficiency, a wide operating range of 180-1000 V<sub>DC</sub>, and 3/4 MPPTs for maximum energy harvest.



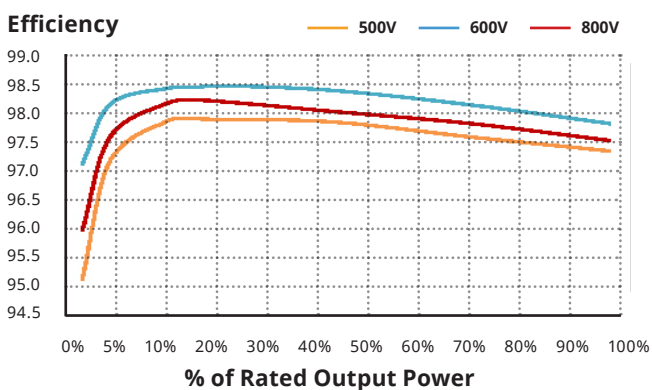
**standard warranty, extension up to 15 years**

## KEY FEATURES

- Maximum efficiency of 98.4%, Maximum EU efficiency of 98.0%
- 3/4 MPPTs to achieve higher system efficiency
- Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- 16A input for each PV string

## EFFICIENCY CURVE

CSI-30K-T220GL03-E



For detailed information, please refer to the Installation Manual.

## CSI SOLAR CO., LTD.

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## HIGH RELIABILITY

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

## BROAD ADAPTIBILITY

- TYPE 4X rated for outdoor application
- AFCI protection, proactively reduces fire risk
- Night time PID recovery function, increases overall system yield (optional)
- Wide MPPT range for flexible string sizing
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

**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.

## SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-15K-T220GL03-E	CSI-20K-T220GL03-E	CSI-25K-T220GL03-E	CSI-30K-T220GL03-E
<b>DC INPUT</b>				
Max. DC Input Voltage	1100 V <sub>DC</sub>			
Start-up DC Input Voltage/Power	180 V <sub>DC</sub>		195 V <sub>DC</sub>	
Number of MPP Trackers	3		4	
MPPT Voltage Range	200 - 1000 V <sub>DC</sub>		180 - 1000 V <sub>DC</sub>	
Max. Input Current (Imp)	96 A (32 A per MPPT)		128 A (32 A per MPPT)	
Max. Short Circuit Current (Isc)	150 A (50 A per MPPT)		200 A (50 A per MPPT)	
Number of DC Inputs	6 (2 per MPPT)		8 (2 per MPPT)	
DC Switch	Integrated			
<b>AC OUTPUT</b>				
Rated AC Output Power	15 kW	20 kW	25 kW	30 kW
Max. AC Output Power	15 kW	20 kW	25 kW	30 kW
Rated Output Voltage	220 V <sub>AC</sub>			
Grid Connection Type	3 W / N / PE			
Rated Grid Output Current	39.4 A	52.5 A	65.6 A	78.7 A
Max Output Current	43.3 A	57.7 A	72.2 A	86.6 A
Rated Output Frequency	60 Hz			
Power Factor	> 0.99 (0.8 leading ... 0.8 lagging)			
Current THD	< 3%			
<b>SYSTEM</b>				
Max. Efficiency	97.8 %		98.4 %	
EU Efficiency	97.3 %		98.0 %	
Night Consumption	< 1 W			
Anti-PID Module	Optional			
<b>ENVIRONMENT</b>				
DC / AC SPD	DC SPD Type II / AC SPD Type II			
Protection Degree	TYPE 4X			
Cooling	Intelligent Redundant Fan Cooling			
Operating Temperature Range	- 25 °C to + 60 °C			
Operating Humidity	0 - 100 % Condensing			
Operating Altitude	4000 m			
<b>DISPLAY AND COMMUNICATION</b>				
Display	LCD			
Communication	RS485, Optional: Wi-Fi			
<b>MECHANICAL DATA</b>				
Dimensions (W / H / D)	647 x 629 x 252 mm		691 x 578 x 338 mm	
Weight	37 kg		54.5 kg	
DC Connector	MC4			
Compliance	UL 1741, IEEE 1547, UL 1699B, UL 1998, FCC, UL 1741SA			

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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