



Preliminary Technical Information Sheet



THREE PHASE STRING INVERTER 50-75 kW

CSI-50kW | CSI-60kW | CSI-75kW



CSI Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for industrial and commercial rooftop applications.

These inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.5% conversion efficiency, a wide operating range of 200-1000 V_{DC}, and multi choice MPPTs for maximum energy harvesting.

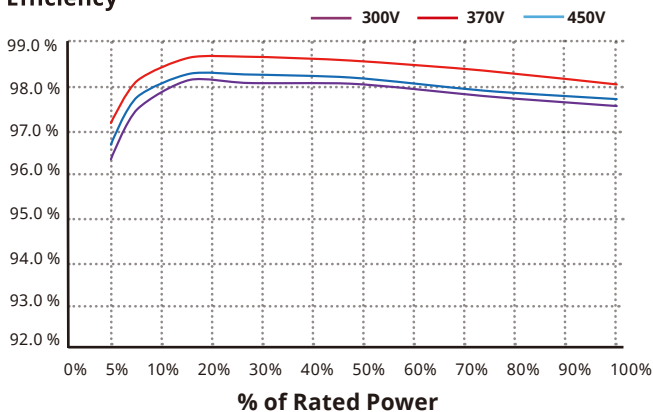
KEY FEATURES

- Maximum efficiency of 98.5%, Maximum EU efficiency of 98.0%
- 20A input supports multiple high-power modules
- Integrated DC Switches
- Smart string monitoring
- Integrated anti-PID function (Optional)
- Supports aluminum cable
- Smart IV curve scan (Optional)

EFFICIENCY CURVE

CSI-75KW-T220

Efficiency



HIGH RELIABILITY

- Intelligent fan-cooling
- SPD Type II for DC and AC
- Leakage current suppression technology
- DC reverse polarity protection
- AFCI function integrated

BROAD ADAPTIBILITY

- IP66 protection for harsh environment
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Wide MPPT range for flexible string sizing

CSI Solar Co., Ltd. is committed to providing high quality solar products, solar system solutions and services to customers around the world. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 63 GW deployed around the world since 2001.

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SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-50K-T2201A-E	CSI-60K-T2201A-E	CSI-75K-T2201A-E
INPUT (DC)			
Max. Input Voltage		1100 V _{DC}	
Start-up DC Input Voltage		195 V _{DC}	
Rated Input Voltage		370 V _{DC}	
MPPT Voltage Range		200 - 1000 V _{DC}	
MPPT No.	6	6	6
Max. String Input No.	12	12	12
Max. Input Current	6 x 40 A	6 x 40 A	6 x 40 A
Max. DC short-circuit current	6 x 50 A	6 x 50 A	6 x 50 A
OUTPUT (AC)			
Rated AC Output Power	50 kW	60 kW	75 kW
Max. AC Output Power (Apparent)	50 kVA	60 kVA	75 kVA
Rated Output Voltage		127 / 220 V _{AC}	
Grid Connection Type		3 L / N / PE	
Max Output Current	131.2A	157.5A	196.8A
Rated Output Frequency		50 / 60 Hz	
THDi		< 3 %	
Power Factor		0.8 leading ... 0.8 lagging	
Zero Export Solution		Supported	
EFFICIENCY			
Max. Efficiency		98.5 %	
EU Efficiency		98.0 %	
ENVIRONMENT			
Protection Degree		IP66	
Cooling		Intelligent Air Cooling	
Operating Temperature Range		-30 °C to +60 °C	
Operating Humidity		0 - 100 % Non-condensing	
Operating Altitude		4000 m (> 3000 m derating)	
PROTECTION			
Anti-Islanding Protection		Yes	
DC Reverse-Polarity Protection		Yes	
DC Insulation Resistance Dection		Yes	
Residual Current Monitoring		Yes	
String Monitoring		Yes	
AC Output Over Current Protection		Yes	
AC Short Circuit Protection		Yes	
Grid Monitoring		Yes	
Anti-PID Module		Optional	
Overvoltage Class		II (DC), III (AC)	
DC / AC SPD		DC Type II / AC Type II	
AFCI		Yes	
Smart I/V curve scan		Optional	
DISPLAY AND COMMUNICATION			
Display		LED Indicators & APP	
Communication		RS485 / WiFi (optional)	
MECHANICAL DATA			
Dimensions (W / H / D)		720 x 555 x 288 mm	
Weight	90 kg	90 kg	90 kg
DC Connection Type		MC4	
AC Connection Type		OT Connector (MAX 240 mm ²)	
CERTIFICATION			
Compliance		Ordinance 140/515	

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.