NEW

Preliminary Technical Information Sheet

CanadianSolar

# 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.

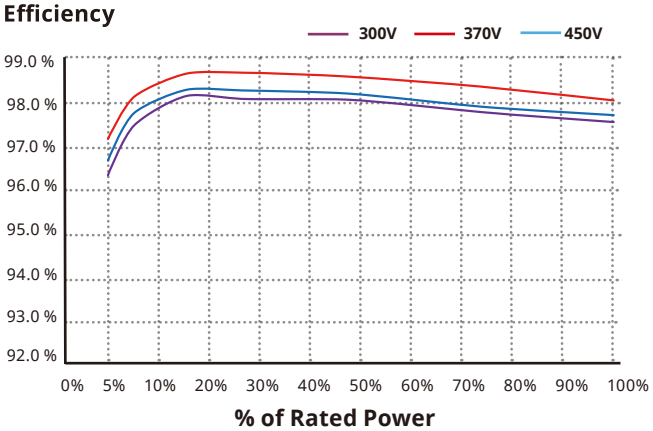
### KEY FEATURES

- 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.

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