



THREE PHASE STRING INVERTER 100-120 KW

**CSI-100K-T4001A-E | CSI-100K-T4001B-E |
CSI-110K-T4001A-E | CSI-110K-T4001B-E |
CSI-120K-T4001A-E | CSI-120K-T4001B-E**



CSI Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string architecture for commercial and industrial rooftop applications. CSI inverters are easy to configure and have a high conversion efficiency of 98.5% to provide high yield and significant BoS savings. With a wide operating range of 200-1000 Vdc and 6 or 9 MPPTs, they are the ideal choice for maximum energy harvesting.



**Warranty,
extension up to 20 years**

KEY FEATURES

- Maximum efficiency of 98.5%, Maximum EU efficiency of 98.1%
- 6 or 9 MPPTs to achieve higher system efficiency
- 20A input for each string, perfectly matches with TOPHiku7 series module*
- Integrated DC switch
- Smart string monitoring
- Supports aluminum cable
- Integrated AFCI function
- DC reverse polarity protection

HIGH RELIABILITY

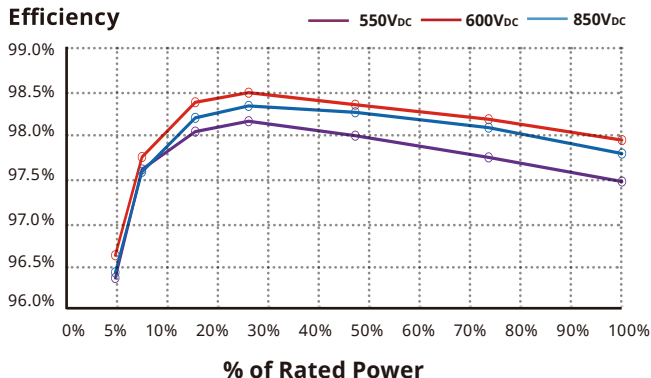
- Intelligent cooling technology
- SPD Type II for DC and AC
- Residual current monitoring

BROAD ADAPTABILITY

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

EFFICIENCY CURVE

CSI-120K-T4001B-E
Efficiency



For detail information, please refer to Installation Manual.

*20A input for each string, perfectly matches with TOPHiku7 series module-6 MPPTs models only.

| MODEL NAME | CSI-100K-T4001A-E | CSI-100K-T4001B-E | CSI-110K-T4001A-E | CSI-110K-T4001B-E | CSI-120K-T4001A-E | CSI-120K-T4001B-E |
|------------------------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Product number | 74002417 | 74002602 | 74002419 | 74002603 | 74002421 | 74002604 |
| INPUT (DC) | | | | | | |
| Max. Input Voltage | 1100 V _{DC} | | | | | |
| Start-up DC Input Voltage | 195 V _{DC} | | | | | |
| Rated Input Voltage | 600 V _{DC} | | | | | |
| MPPT Voltage Range | 200 - 1000 V _{DC} | | | | | |
| Max. String Input No. | 12 | 18 | 12 | 18 | 12 | 18 |
| MPPT No. | 6 | 9 | 6 | 9 | 6 | 9 |
| Max. Input Current | 6 x 40 A | 9 x 32 A | 6 x 40 A | 9 x 32 A | 6 x 40 A | 9 x 32 A |
| Max. DC short-circuit current | 6 x 50 A | 9 x 40 A | 6 x 50 A | 9 x 40 A | 6 x 50 A | 9 x 40 A |
| OUTPUT (AC) | | | | | | |
| Rated AC Output Power | 100 kW | 100 kW | 110 kW | 110 kW | 120 kW | 120 kW |
| Max. AC Output Power (Apparent) | 100 kVA | 100 kVA | 110 kVA | 110 kVA | 120 kVA | 120 kVA |
| Rated Output Voltage | 380 / 400 V _{AC} | | | | | |
| Grid Connection Type | 3 L / N / PE | | | | | |
| Max Output Current | 152 A | 152 A | 167.1 A | 167.1 A | 182.3 A | 182.3 A |
| Rated Output Frequency | 50 / 60 Hz | | | | | |
| THDi | < 3 % | | | | | |
| Power Factor | 0.8 leading ... 0.8 lagging | | | | | |
| Zero Export Solution | optional, Smart Meter or EPM-Box needed | | | | | |
| EFFICIENCY | | | | | | |
| Max. Efficiency | 98.5 % | | | | | |
| EU Efficiency | 98.1 % | | | | | |
| ENVIRONMENT | | | | | | |
| Protection Degree | IP66 | | | | | |
| Cooling | Intelligent Fan Cooling | | | | | |
| Operating Temperature Range | -30 °C to +60 °C | | | | | |
| Operating Humidity | 0 - 100 % Non-condensing | | | | | |
| Operating Altitude | 4000 m (> 3000 m derating) | | | | | |
| PROTECTION | | | | | | |
| DC Switch | Yes | | | | | |
| Anti-Islanding Protection | Yes | | | | | |
| DC Reverse-Polarity Protection | Yes | | | | | |
| DC Insulation Resistance Detection | Yes | | | | | |
| Residual Current Monitoring | Yes | | | | | |
| String Monitoring | Yes | | | | | |
| AC Output Over Current Protection | Yes | | | | | |
| AC Short Circuit Protection | Yes | | | | | |
| Grid Monitoring | Yes | | | | | |
| AFCI | Yes | | | | | |
| Overvoltage Category | II (DC), III (AC) | | | | | |
| DC / AC SPD | DC SPD Type II / AC SPD Type II (Type I Optional) | | | | | |
| DISPLAY AND COMMUNICATION | | | | | | |
| Display | LED & APP (via Bluetooth) | | | | | |
| Communication | RS485 / WiFi | | | | | |
| MECHANICAL DATA | | | | | | |
| Dimensions (W / H / D) | 1050 x 687 x 355 mm | | | | | |
| Weight | 90 kg | 95 kg | 90 kg | 95 kg | 90 kg | 95 kg |
| DC Input terminals | MC4(Staubli) | | | | | |
| AC Input terminals | OT Terminals (Support the AC cables Max. 240mm ²) | | | | | |
| CERTIFICATION | | | | | | |
| Safety / EMC | IEC62109-1/2, IEC 61000-6-1/2/3/4 | | | | | |
| Grid Connection Standards | IEC 61727&IEC62116,EN50549-1/2,CEI0-21/16,VDE4105,VDE4110,NRS097,RD1699,RD661,RD413,UNE217002,UNE217001,RD244,NTS2.1 | | | | | |

The specifications and features contained in this datasheet may deviate slightly from the actual product due to 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 choice.

Caution: For professional use only. The installation and handling of PV equipment requires professional skills and should only be performed by qualified persons. Please read the safety and installation instructions before using the product.