THREE PHASE STRING INVERTER 5-10 KW

CSI-5K-T400 | CSI-6K-T400
CSI-8K-T400 | CSI-10K-T400

Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for residential and commercial rooftop 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 98.7% conversion efficiency, a wide operating range of 160-850 Vdc, and two MPPTs for maximum energy harvest.

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.1%
- Two MPPTs to achieve higher system efficiency
- Strings intelligent monitoring
- Up to 20% DC input oversize

HIGH RELIABILITY

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

BROAD ADAPTIBILITY

- IP65 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC load rated disconnects
- Wide MPPT range for flexible string sizing
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

For detailed information, please refer to the Installation Manual.

Canadian Solar is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 40 GW deployed around the world since 2001.

Canadian Solar Inc.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com
<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>CSI-5K-T400GL01-E</th>
<th>CSI-6K-T400GL01-E</th>
<th>CSI-8K-T400GL01-E</th>
<th>CSI-10K-T400GL01-E</th>
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</thead>
<tbody>
<tr>
<td>DC INPUT</td>
<td></td>
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<tr>
<td>Max. DC Power</td>
<td>6 kW</td>
<td>7.2 kW</td>
<td>9.6 kW</td>
<td>12 kW</td>
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</tbody>
</table>
| Max. DC Input Voltage | 1000 V
DC               |                  |                  |                   |                    |
| Start-up DC Input Voltage/Power | 180 V
DC               |                  |                  |                   |                    |
| Number of MPP Trackers | 2               |                  |                   |                    |
| MPPT Voltage Range | 160 - 850 V
DC               |                  |                  |                   |                    |
| Max. Input Current (Imp) | 11A / 11A       |                  |                   |                    |
| Max. Short Circuit Current (Isc) | 17.2A / 17.2A    |                  |                   |                    |
| Number of DC Inputs | 2 / 2           | 2 / 2            | 2 / 2             | 2 / 2              |
| DC Disconnection Type | Load rated DC switch |                  |                   |                    |
| AC OUTPUT  |                  |                  |                   |                    |
| Rated AC Output Power | 5 kW            | 6 kW            | 8 kW              | 10 kW             |
| Max. AC Output Power | 5.5 kW          | 6.6 kW          | 8.8 kW           | 11 kW            |
| Rated Output Voltage* | 220/385 V
AC, 230/400 V
AC |                  |                  |                   |                    |
| Grid Connection Type | 3 W / N / PE     | 3 W / N / PE    | 3 W / N / PE     | 3 W / N / PE     |
| Rated Grid Output Current | 7.6A / 7.2 A    | 9.1A / 8.7A     | 12.2A / 11.5 A   | 15.2A / 14.4 A   |
| Max Output Current | 7.9 A           | 9.5 A           | 12.7 A          | 15.9 A          |
| Rated Output Frequency | 50/60 Hz        |                  |                   |                    |
| Output Frequency Range* | 45-55 Hz / 55-65 Hz |                  |                   |                    |
| Power Factor | >0.99 (0.8 leading ... 0.8 lagging) |                  |                   |                    |
| Current THD | < 1.5 %          |                  |                   |                    |
| DC Injection Current | < 0.5% of Rated Grid Output Current |                  |                   |                    |
| SYSTEM     |                  |                  |                   |                    |
| Max. Efficiency | 98.3%           | 98.7%           |                   |                    |
| EU Efficiency | 97.8%          | 98.1%           |                   |                    |
| Night Consumption | < 1 W          |                  |                   |                    |
| ENVIRONMENT|                  |                  |                   |                    |
| Protection Degree | IP65            |                  |                   |                    |
| Cooling | Natural Convection Cooling |                  |                   |                    |
| Operating Temperature Range | -25 °C to +60 °C |                  |                   |                    |
| Storage Temperature Range | -40 °C to +70 °C |                  |                   |                    |
| Operating Humidity | 0 - 100% Condensing |                  |                   |                    |
| Operating Altitude | 4000 m         |                  |                   |                    |
| Audible Noise | <30 dBA @ 1 m  |                  |                   |                    |
| DISPLAY AND COMMUNICATION|                   |                  |                   |                    |
| Display | LCD, 2×20 Z     |                  |                   |                    |
| Communication | WIFI/RS485 Optional |                  |                   |                    |
| MECHANICAL DATA |                  |                  |                   |                    |
| Dimensions (W / H / D) | 563 x 310 x 219 mm |                  |                   |                    |
| Weight | 17.3 kg         | 18 kg            |                  |                    |
| Installation Angle | 0~15 Degrees from Vertical |                  |                   |                    |
| DC Inputs | MC4             |                  |                   |                    |
| SAFETY     |                  |                  |                   |                    |
| Safety and EMC Standard | IEC62109-1/2, EN61000-6-2, EN61000-6-3 |                  |                   |                    |
| Grid Standard | IEC61727, AS777 |                  |                   |                    |

*The "Rated Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standard.