SINGLE PHASE STRING INVERTER

CSI-700TL1P-GI-FL|CSI-1KTL1P-GI-FL|CSI-1.5KTL1P-GI-FL
CSI-2KTL1P-GI-FL|CSI-2.5KTL1P-GI-FL|CSI-3.0KTL1P-GI-FL

KEY FEATURES

- Max. efficiency up to 97.5%, wide input voltage range
- Integrated DC switch
- Transformerless topology
- Compact design
- Flexible communication connection: supports RF, WiFi, Ethernet

5 years Standard warranty, extension up to 20 years

EFFICIENCY CURVE

CSI-3.0KTL1P-GI-FL @220 Vac

HIGH RELIABILITY

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

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 30 GW deployed around the world since 2001, Canadian Solar Inc. is one of the most bankable solar companies worldwide.

*For detailed information, please refer to the Installation Manual.

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada | www.canadiansolar.com
**MODEL NAME**
- CSI-700TL1P-GI-FL
- CSI-1KTL1P-GI-FL
- CSI-1.5KTL1P-GI-FL
- CSI-2KTL1P-GI-FL
- CSI-2.5KTL1P-GI-FL
- CSI-3.0KTL1P-GI-FL

**DC INPUT**
- Max. PV power: 0.9KW, 1.2KW, 1.8KW, 2.3KW, 3KW, 3.5KW
- Max. DC input voltage: 600V
- Start-up DC Input Voltage: 60V, 90V
- Number of MPP Trackers: 1/1
- MPPT Voltage Range: 50-500V, 80-500V
- Max. Input Current (Imp): 11A
- Max. Short Circuit Current (Isc): 17.2A
- Number of DC Inputs: 1/1
- DC Disconnection Type: Load rated DC switch

**AC OUTPUT**
- Rated AC Output Power: 0.7KW, 1KW, 1.5KW, 2KW, 2.5KW, 3KW
- Max. AC Output Power: 0.8KW, 1.1KW, 1.7KW, 2.2KW, 2.8KW, 3.3KW
- Rated Output Voltage: 220V/230V

**OUTPUT VOLTAGE RANGE**
- Grid Connection Type: 1 Φ / PE
- Rated Grid Output Current: 3.2/3.0A, 4.5/4.3A, 6.8/6.5A, 9.1/8.7A, 11.4/10.9A, 13.6/13A
- Max. Output Current: 4.4A, 5.2A, 8.1A, 10.5A, 13.3A, 15.7A
- Rated Output Frequency: 50HZ/60HZ
- Output Frequency Range: 47.5-52HZ OR 57-62HZ
- Power Factor: 0.8 Leading ... 0.8 Lagging
- Current THD: <0.3%
- DC Injection Current: <0.5% In
- Max. Apparent Output Power: 0.8KVA, 1.1KVA, 1.7KVA, 2.2KVA, 2.8KVA, 3.3KVA

**SYSTEM**
- Topology: Transformerless
- Max. Efficiency: 97.2%, 97.5%
- EU Efficiency: 96.5%, 96.8%
- MPPT Efficiency: >99.5%, >99.5%
- Night Consumption: <1W (Night)

**ENVIRONMENT**
- Protection Degree: IP65
- Cooling: Natural convection
- Operating Ambient Temperature Range: -25℃ to +60℃
- Storage Temperature Range: -40℃ to +70℃
- Operating Humidity: 0~100%
- Operating Altitude: 4000m
- Noise Emission: <20dB

**GENERAL DATA**
- Display: LCD, 2×20 Z.
- Communication Connections: WIFI/RS485 Optional
- Dimensions (W×H×D): 310W*373H*160D (mm)
- Net Weight: 8.5kg, 8.8kg
- Installation Angle: 90 degrees from horizontal
- DC Inputs: MC4
- Warranty: 5 Years

**SAFETY**
- Safety and EMC Standard: IEC62109-1/-2, NB/T 32004

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, Canadian Solar Inc. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

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.