

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

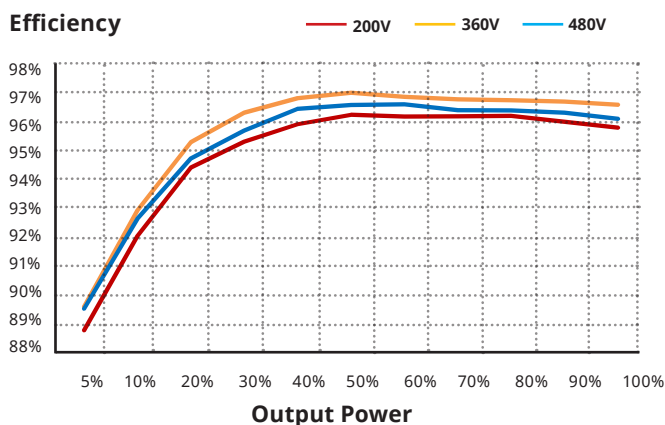
- Max. efficiency up to 97.5%, wide input voltage range
- Integrated DC switch
- Transformerless topology
- Compact design
- Flexible communication connection: supports RF, WiFi, Ethernet



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.

TECHNICAL DATA

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					
Nominal DC Voltage	220V			330V		
Max. Power per MPPT	0.9KW	1.2KW	1.8KW	2.3KW	3KW	3.5KW
MPPT Full Power Voltage Range	66-500V	94-500V	141-500V	187-500V	234-500V	281-500V
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	47-52HZ 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 C to +60 C					
Storage Temperature Range	-40 C to +70 C					
Operating Humidity	0~100%					
Operating Altitude	4000m					
Noise Emission{typical}	<20dB					
GENERAL DATA						
Display	LCD, 2x20 Z.					
Communication Connections	WIFI/RS485 Optional					
Dimensions (WxHxD)	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					
Grid Standard	EN50438, G83/2, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, NBR-16149/NBR-16150					

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.