

SINGLE PHASE STRING INVERTER

CSI-4KTL1P-GI-FL | CSI-5KTL1P-GI-FL

KEY FEATURES

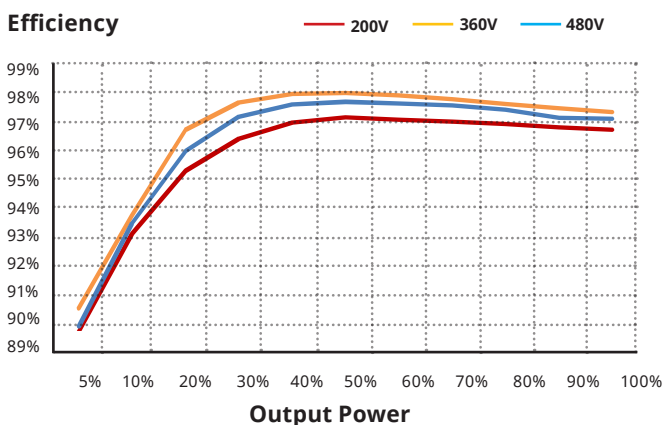
- Max. efficiency up to 98%, wide input voltage range
- Integrated DC switch
- Transformerless topology
- Compact design
- Flexible communication connection: supports RF, WiFi, Ethernet



Standard warranty, extension up to 20 years

EFFICIENCY CURVE

CSI-5KTL1P-GI @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-4KTL1P-GI-FL	CSI-5KTL1P-GI-FL
DC INPUT		
Max. PV power	4.6KW	5.8KW
Max. DC input voltage	600V	
Start-up DC Input Voltage	120V	
Number of MPP Trackers	2/2	
MPPT Voltage Range	90-520V	
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	330V	
Max. Power per MPPT	4KW	4KW
MPPT Full Power Voltage Range	187-520V	234-520V
AC OUTPUT		
Rated AC Output Power	4KW	5KW
Max. AC Output Power	4.4KW	5KW
Rated Output Voltage	220V/230V	
OUTPUT VOLTAGE RANGE		
Grid Connection Type	1 Φ / PE	
Rated Grid Output Current	18.2/17.4A	22.7/21.7A
Max. Output Current	21A	25A (21.7 for AUS)
Rated Output Frequency	50HZ/60HZ	
Output Frequency Range	47-52HZ OR 57-62HZ	
Power Factor	0.8 Leading ... 0.8 Lagging	
Current THD	<1.5%	
DC Injection Current	<0.5% In	
Max. Apparent Output Power	4.4KVA	5KVA
SYSTEM		
Topology	Transformerless	
Max. Efficiency	98.1%	
EU Efficiency	97.3%	
MPPT Efficiency	>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*543H*160D (mm)	
Net Weight	11.5kg	
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, G59/3, 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.