

SINGLE PHASE STRING INVERTER

CSI-4K-1P



Max. efficiency up to 98%, Wide input voltage range



Dual maximum power point tracking



10 years Standard warranty, extension up to 20 years



Flexible communication connection: supports RF, WiFi, Ethernet



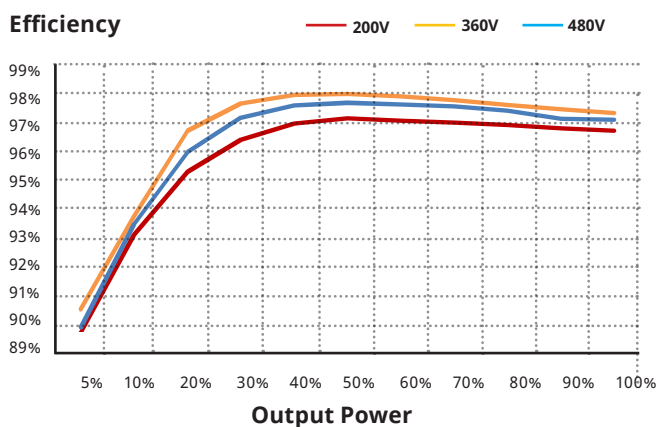
Transformerless topology



Compact design and lightweight. Only one person required for installation

EFFICIENCY CURVE

CSI-4K-1P



HIGH RELIABILITY

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



CSI Cloud

Log in to the CSI Cloud dashboard anytime from your smart phone or laptop to see:

- Your PV system's performance
- Your solar generation
- Faults and warning diagnostics



Energy Meter

Add the energy meter to your main switchboard to see:

- Your household energy usage
- Net electricity sold or bought from your provided
- Improve your loads usage

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 38 GW deployed around the world since 2001, Canadian Solar Inc. is one of the most bankable solar companies worldwide.

CANADIAN SOLAR INC.

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SYSTEM/TECHNICAL DATA	
MODEL NAME	CSI-4KTL1P-GI-FL
DC INPUT	
Max. PV power	5.3kW
Max. DC input voltage	600V
Start-up DC Input Voltage	120V
Number of MPP Trackers	2
MPPT Voltage Range	90-520V
Max. Input Current (Imp)	11A/11A
Max. Short Circuit Current (Isc)	17.2A/17.2A
Number of DC Inputs	1/1
DC Disconnection Type	N/A
AC OUTPUT	
Rated AC Output Power	4kW
Max. AC Output Power	4.4kW
Rated Output Voltage	230V
Output Voltage Range	184-264V
Grid Connection Type	1 Φ / PE
Rated Grid Output Current	17.4A
Max. Output Current	21A
Rated Output Frequency	50Hz
Output Frequency Range	47-52Hz
Power Factor	0.8 leading ... 0.8 lagging
Current THD	<3%
DC Injection Current	<0.5% In
SYSTEM	
Max. Efficiency	98.1%
EU Efficiency	97.3%
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% Condensing
Operating Altitude	4000m
Audible Noise	<20dB
DISPLAY AND COMMUNICATION	
Display	LCD, 2×20 Z
Communication	WIFI/RS485
MECHANICAL DATA	
Dimensions (W×H×D)	310W*543H*160D mm
Weight	11.5kg
Installation Angle	0-15 Degrees from Vertical
DC Inputs	MC4
SAFETY	
Safety and EMC Standard	IEC62109-1/-2, EN 61000-6-2/3
Grid Standard	AS4777.2:2015, IEC62116

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.

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