

# SINGLE PHASE STRING INVERTER

## CSI-4K-1P



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



2X Dual maximum power point tracking



Standard warranty, extension up to 20 years



Flexible communication connection: supports RF, WiFi, Ethernet



Transformerless topology

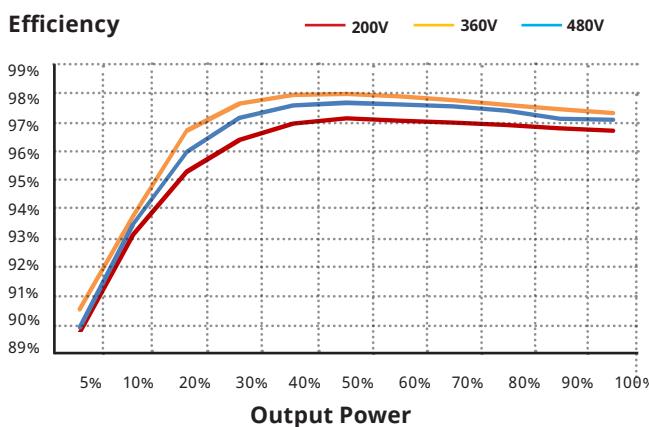


Compact design and lightweight. Only one person required for installation

### EFFICIENCY CURVE

CSI-4K-1P

Efficiency



### 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 provider
- 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
<b>DC INPUT</b>		
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
<b>AC OUTPUT</b>		
Rated AC Output Power		4kW
Max. AC Output Power		4.4kW
Rated Output Voltage		230V
Output Voltage Range		184-264V
Grid Connection Type		1 $\Phi$ / 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
<b>SYSTEM</b>		
Max. Efficiency		98.1%
EU Efficiency		97.3%
Night Consumption		<1W (Night)
<b>ENVIRONMENT</b>		
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
<b>DISPLAY AND COMMUNICATION</b>		
Display		LCD, 2x20 Z
Communication		WIFI/RS485
<b>MECHANICAL DATA</b>		
Dimensions (WxHxD)		310W*543H*160D mm
Weight		11.5kg
Installation Angle		0-15 Degrees from Vertical
DC Inputs		MC4
<b>SAFETY</b>		
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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