

SINGLE PHASE STRING INVERTER

7000W | 8000W | 9000W

CSI-7K-1P | CSI-8K-1P | CSI-9K-1P

KEY FEATURES



Enhance Solar System Output

Support high current PV modules with 15A operating current.



Max. Efficiency 98.1%

H6 Plus high efficient topology with Max. efficiency 98.1%, Europe 97.5%.



User Friendly

Low weight allows one person installation.
Real-time monitoring with Cloud platform.
Supports one-click inverter configuration.
Supports remote parameter configuration & firmware update.



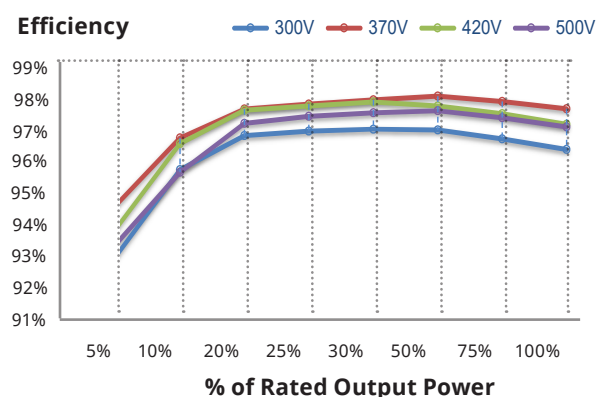
Higher Reliability

Integrated DC switch.
Natural convection.
IP65.



**5-year standard warranty
plus additional 5 upon
registration**

CSI-9K-S22003-E EFFICIENCY CURVE



Register your Free Warranty
Scan the QR code to get 5 years
free warranty extension on your
Canadian Solar inverter

CSI Solar Co., Ltd. is committed to providing high quality solar products, solar system solutions and services to customers around the world. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 70 GW deployed around the world since 2001.

* For detail information, please refer to Installation Manual.

CSI SOLAR CO., LTD.

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SYSTEM TECHNICAL DATA

MODEL NAME	CSI-7K-S22003-E	CSI-8K-S22003-E	CSI-9K-S22003-E
DC INPUT			
Max. DC Input Voltage (V)		600	
Start-up DC Input Voltage (V)**		110	
MPPT Operating Voltage Range (V)		100 - 500	
Rated Input Voltage (V)		360	
Max. input current per MPP tracker (A)		15 / 30	
Max. short-circuit current per MPP tracker (A)		18.8 / 37.6	
Number of MPP Trackers		2	
Number of DC Inputs		1 / 2	
Max Input DC Power (W)	10500	12000	13500
AC OUTPUT			
Rated Output Power (W)	7000	8000	9000
Max. Output Power (W)	7000	8000	9000
Max. / Rated Output Apparent Power (VA)	7000	8000	9000
AC Grid Connection Type		L / N / PE	
AC Nominal Voltage And Range (V)		220 / 230 / 240 (180 ~ 280)	
AC Nominal Frequency And Range (Hz)		50 / 60 (±5)	
Max. / Rated Output Current (A)	31.8	36.3	40.9
Displacement Power Factor		0.8 leading to 0.8 lagging	
Total Harmonic Distortion (THDi)		< 3%	
EFFICIENCY			
Max. Efficiency		98.1 %	
European Efficiency		97.5 %	
SAFETY & PROTECTION			
DC Switch		Integrated	
Anti-Islanding Protection		Integrated	
DC Reverse-Polarity Protection		Integrated	
Insulation Monitoring		Integrated	
AC Over Voltage Protection		Integrated	
AC Over Current Protection		Integrated	
AC Short-Circuit Protection		Integrated	
Residual Current Protection		Integrated	
Overvoltage Class		II (DC), III (AC)	
GENERAL PARAMETERS			
Dimensions (W x H x D, mm)		399 x 446 x 192	
Net Weight (kg)		19.5	
Installation Method		Wall - mounted	
DC Connection Type		MC4, T6	
AC Connection Type		Connector	
Communication		RS485 / WiFi	
Display		LED & APP	
Cooling		Natural Convection	
Protection Degree		IP65	
Operating Ambient Temperature Range (°C)		- 25 ~ 60 °C (> 45 °C, derating operation)	
Relative Humidity (Non-Condensing)		0% ~ 100%	
Max. Operating Altitude (m)		4000 m (> 3000 m, derating operation)	
Topology		Transformerless	
Night Power Consumption (W)		< 1	
Safety and EMC		IEC 62109-1/2, IEC 61000-6-1, IEC 61000-6-3	
Grid Connection Standard	ABNT NBR 16149/16150:2013, IEC61727 & IEC62116, AS4777	AS4777	ABNT NBR 16149/16150:2013, IEC61727 & IEC62116, AS4777
Country of manufacture		China	

*Any system with a DC/AC ratio being less than 1.5 is within our warranty scope. Please contact local CSI Solar technical support for further confirmation if otherwise.

**The minimum input DC operating voltage is the same as the Start-up DC Input Voltage (V)

The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without notice.
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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