



SINGLE PHASE STRING INVERTER

7000W | 8000W | 9000W

KEY FEATURES



Enhance Solar System Output

Support high current PV modules with 12.5A operation current.



Max. Efficiency 98.1%

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



User Friendly

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



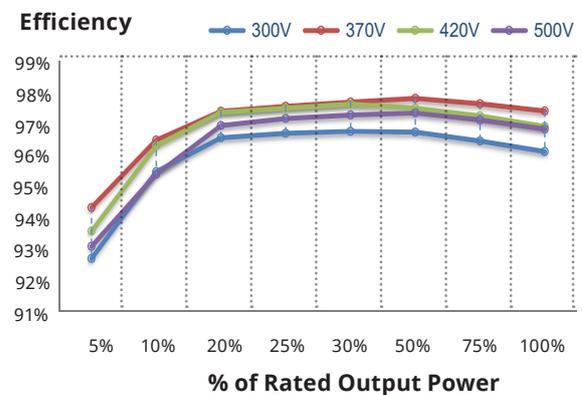
Higher Reliability

Integrated power module design.
Integrated DC Box.
Natural convection.
IP65.



standard warranty, extension up to 10 years

CSI-9K-S22002-ED EFFICIENCY CURVE



CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 46 GW deployed around the world since 2001.

SYSTEM TECHNICAL DATA

MODEL NAME	CSI-7K-S22002-ED	CSI-8K-S22002-ED	CSI-9K-S22002-ED
DC INPUT			
Max. PV Power (W)	9100	10400	11700
Max. DC Input Voltage (V)	600	600	600
Start-up DC Input Voltage (V)	120	120	120
MPPT Operating Voltage Range (V)	100 - 500	100 - 500	100 - 500
Rated Input Voltage (V)	360	360	360
Max. Input Current (A)	12.5 / 25	12.5 / 25	12.5 / 25
Max. Short-Circuit Current (A)	15 / 30	15 / 30	15 / 30
Number of MPP Trackers	2	2	2
Number of DC Inputs	1 / 2	1 / 2	1 / 2
AC OUTPUT			
Rated Output Power (W)	7000	8000	9000
Max. Output Power (W)	7700	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. Output Current (A)	35	36.4	40.9
Power Factor (@Rated Output Power)	> 0.99		
Displacement Power Factor	0.8 leading to 0.8 lagging		
Total Harmonic Distortion (THDi)	< 3 %		
EFFICIENCY			
Max. Efficiency	98.1 %	98.1 %	98.1 %
European Efficiency	97.5 %	97.5 %	97.5 %
MPPT Efficiency	99.9 %	99.9 %	99.9 %
SAFETY & PROTECTION			
DC SPD	Type II		
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*H*D, mm)	399 * 583 * 192		
Net Weight (kg)	19.3		
Installation Method	Wall - mounted		
DC Connection Type	MC4 / H4		
AC Connection Type	Connector		
Communication Interfaces	RS485 / WiFi		
Display	LED Indicator		
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)		
Acoustic Noise Emission Level (dBA)	< 25		
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		

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