

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.



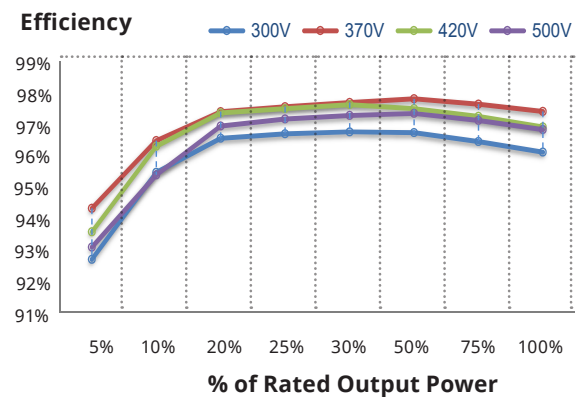
Higher Reliability

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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