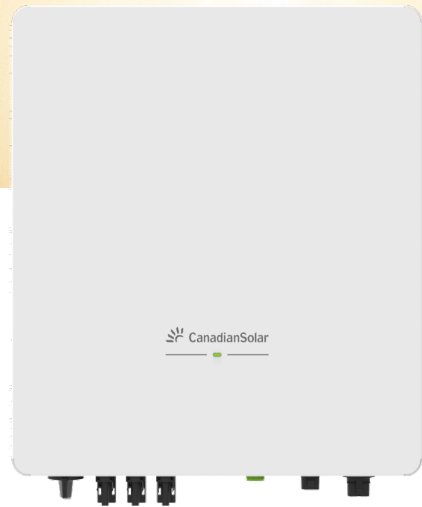


# SINGLE PHASE STRING INVERTER

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.



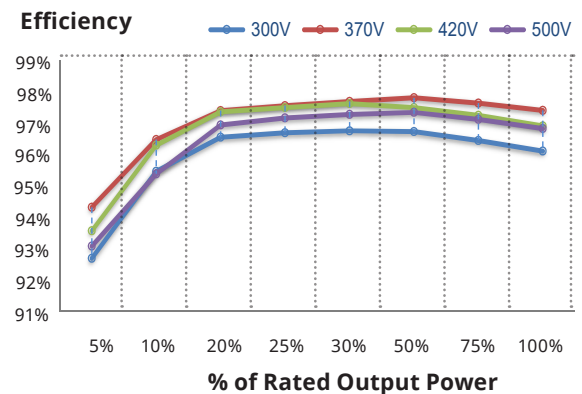
### Higher Reliability

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



standard warranty, extension up to 10 years

## CSI-9K-S22002-E 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-E                             | CSI-8K-S22002-E | CSI-9K-S22002-E |
|--|---|-----------------|-----------------|
| <b>DC INPUT</b>                          |   |                 |                 |
| 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           |
| <b>AC OUTPUT</b>                         |   |                 |                 |
| 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%  |                 |                 |
| <b>EFFICIENCY</b>                        |   |                 |                 |
| Max. Efficiency                          | 98.1 %                                      | 98.1 %          | 98.1 %          |
| European Efficiency                      | 97.5 %                                      | 97.5 %          | 97.5 %          |
| MPPT Efficiency                          | 99.9 %                                      | 99.9 %          | 99.9 %          |
| <b>SAFETY &amp; PROTECTION</b>           |   |                 |                 |
| 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)                           |                 |                 |
| <b>GENERAL PARAMETERS</b>                |   |                 |                 |
| Dimensions (W*H*D, mm)                   | 399 * 446* 192                              |                 |                 |
| Net Weight (kg)                          | 18.1  |                 |                 |
| 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                 | IEC61727, 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.

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