

# SINGLE PHASE STRING INVERTER

**7000W | 8000W | 9000W**

## KEY FEATURES



### Enhance Solar System Output

Support high current PV modules with 12.5A 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.



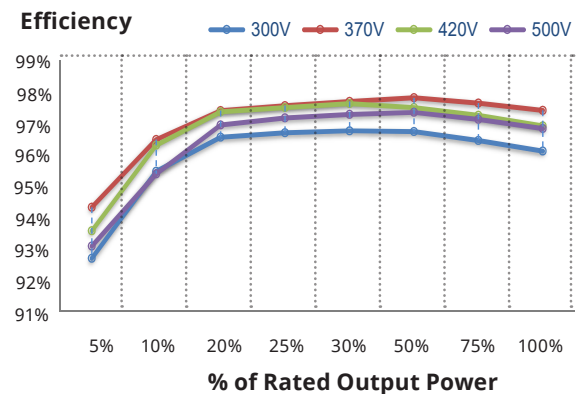
### Higher Reliability

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



Standard Warranty, Extension up to 20 Years

## CSI-9K-S22002-E EFFICIENCY CURVE



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 63 GW deployed around the world since 2001.

\* For detail information, please refer to Installation Manual.

**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)	10500	12000	13500
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		
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 x H x D, mm)	399 x 446 x 192		
Net Weight (kg)	19.5		
Installation Method	Wall - mounted		
DC Connection Type	MC4		
AC Connection Type	Connector		
Communication	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)		
Topology	Transformerless		
Night Power Consumption (W)	< 1		
Conformity	UL 1741, IEEE 1547		

\*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 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.