

# SINGLE PHASE STRING INVERTER

7000W | 9000W

## 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%, Europe 97.30%.



### 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.



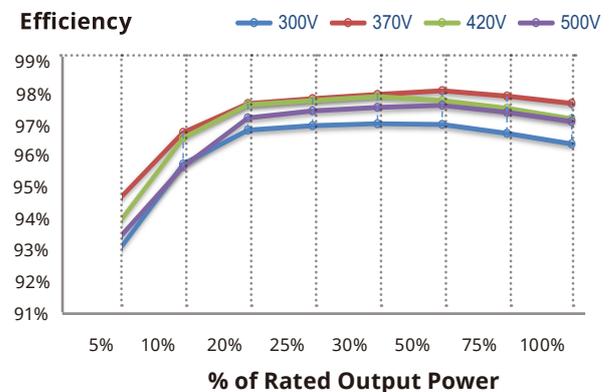
### Higher Reliability

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



Standard Warranty, Extention up to 20 Years

## CSI-9K-S2203A-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-S2203A-E	CSI-9K-S2203A-E
<b>DC INPUT</b>		
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 (A)	15 / 30	
Max. Short-Circuit Current (A)	18.8 / 37.6	
Number of MPP Trackers	2	
Number of DC Inputs	1 / 2	
<b>AC OUTPUT</b>		
Rated Output Power (W)	7000	9000
Max. Output Power (W)	7000	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)	31.8	40.9
Displacement Power Factor	0.8 leading to 0.8 lagging	
Total Harmonic Distortion (THDi)	< 3%	
Zero Export solution	Optional, Smart Meter or CT needed	
<b>EFFICIENCY</b>		
Max. Efficiency	98.1 %	
European Efficiency	97.16 %	97.30 %
<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	
AFCI	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	Quick Connection 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	Inmetro 140/515	

\*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.