

SINGLE PHASE STRING INVERTER

5000W

CSI-5K-1P

KEY FEATURES



Enhance Solar System Output

Support high current PV modules with 15A operation current.



Max. Efficiency 98%

H6 Plus high efficient topology with Max. efficiency 98%



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.



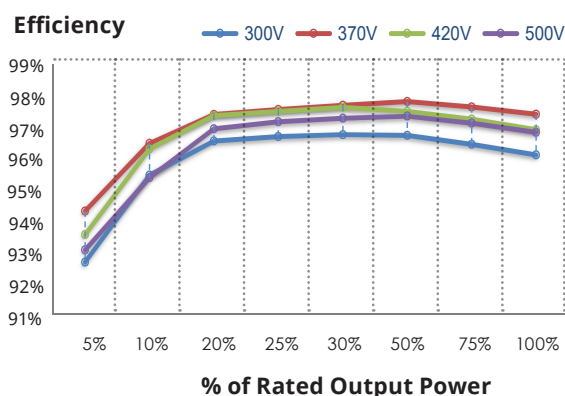
Higher Reliability

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



**5-year standard warranty
plus additional 5 upon
registration**

CSI-5K-S22003-E EFFICIENCY CURVE



Register your Free Warranty
Scan the QR code to get 5 years
free warranty extension on your
Canadian Solar inverter

CSI SOLAR CO., LTD. is committed to providing high quality solar products, solar system solutions and services to customers around the world. CSI Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 70 GW deployed around the world since 2001.

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SYSTEM TECHNICAL DATA

MODEL NAME	CSI-5K-S22002-E		CSI-5K-S22003-E	
DC INPUT				
Max. PV Power (W)			6500	
Max. DC Input Voltage (V)			600	
Start-up DC Input Voltage (V)*			110	
MPPT Operating Voltage Range (V)			100 ~ 550	
Rated Input Voltage (V)			360	
Max. input current per MPP tracker (A)	12			15
Max. short-circuit current per MPP tracker(A)	15			18.8
Number of MPP Trackers			2	
Number of DC Inputs			1 / 1	
AC OUTPUT				
Rated Output Power (W)			5000	
Max. Output Power (W)			5000	
Max. / Rated Output Apparent Power (VA)			5000	
AC Grid Connection Type			L / N / PE	
AC Nominal Voltage And Range (V)			230 (180 ~ 280)	
AC Nominal Frequency And Range (Hz)			50 (± 5)	
Max. / Rated Output Current (A)			21.7	
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			98.0 %	
European Efficiency			97.5 %	
MPPT Efficiency			> 99.9 %	
SAFETY &PROTECTION				
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 x H x D, mm)			355 x 435 x 158	
Net Weight (kg)			13.5	
Installation Method			Wall-mounted	
DC Connection Type			MC4 / H4	
AC Connection Type			Connector	
Communication Interfaces			M16 (WIFI / RS485 / GPRS Optional)	
Display			LED Indicator	
Cooling			Natural Convection	
Protection Degree			IP65	
Operating Ambient Temperature Range (°C)			-25 ~ 60 (> 45, derating operation)	
Relative Humidity (Non-Condensing)			0% ~ 100%	
Max. Operating Altitude (m)			4000 (> 3000, derating operation)	
Acoustic Noise Emission Level (dBA)			< 25	
Topology			Transformerless	
Night Power Consumption (W)			< 1	
Safety and EMC			IEC62109-1/2, IEC61000-6-1, IEC61000-6-3	
Grid Connection Standard			AS4777	
Country of manufacture			China	

*The minimum input DC operating voltage is the same as the Start-up DC Input Voltage (V)

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, CSI SOLAR CO., LTD. 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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