

SINGLE PHASE STRING INVERTER (1.5G)

5000W

KEY FEATURES



standard warranty, extension up to 20 years



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%, Europe 97.5%.



User Friendly

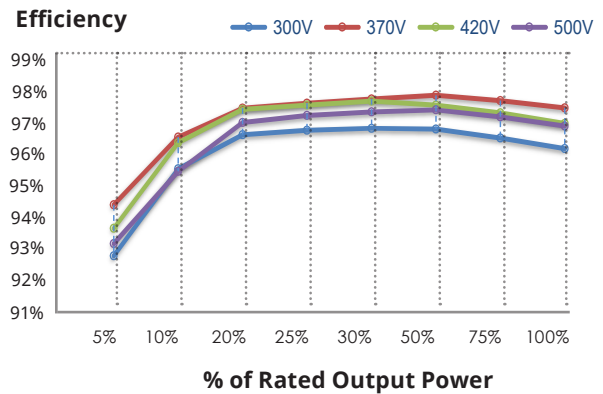
Light weight allows one person installation.
Real-time monitoring with Cloud platform.
Support one-click inverter configuration.
Support remote parameter configuration & firmware update.



Higher Reliability

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

CSI-5K-S22003-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.

SYSTEM TECHNICAL DATA

MODEL NAME	CSI-5K-S22003-E
DC INPUT	
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 / 15
Max. Short-Circuit Current (A)	18.8 / 18.8
Number of MPP Trackers	2
Number of DC Inputs	2
AC OUTPUT	
Rated Output Power (W)	5000
Max. Output Power (W)	5500
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)	25
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 %
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, T6
AC Connection Type	Connector
Communication Interfaces	WIFI / RS485
Display	LED+APP
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	IEC 62109-1/2, IEC 61000-6-1, IEC 61000-6-3
Grid Connection Standard	ABNT NBR 16149/16150:2013

*Any system with a DC/AC ratio being less than 1.5 is within our warranty scope. Please contact local Canadian Solar technical support for further confirmation if otherwise.

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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