

SINGLE PHASE STRING INVERTER

3000W | 5000W

KEY FEATURES



Enhance Solar System Output

Support high current PV modules with 12A 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.



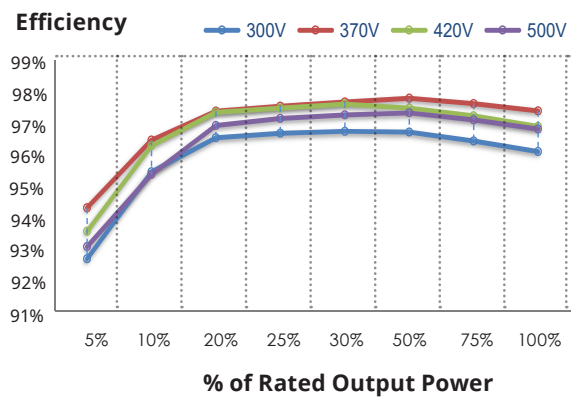
Higher Reliability

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



standard warranty, extension up to 20 years

CSI-5K-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 63 GW deployed around the world since 2001.

SYSTEM TECHNICAL DATA

MODEL NAME	CSI-3K-S22002-E	CSI-5K-S22002-E
DC INPUT		
Max. PV Power (W)	4500	7500
Max. DC Input Voltage (V)	600	600
Start-up DC Input Voltage (V)	60	110
MPPT Operating Voltage Range (V)	60-500	100-550
Rated Input Voltage (V)	360	360
Max. Input Current (A)	12	12/12
Max. Short-Circuit Current (A)	15	15/15
Number of MPP Trackers	1	2
Number of DC Inputs	1	1/1
AC OUTPUT		
Rated Output Power (W)	3000	5000
Max. Output Power (W)	3000	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)	13.6	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	97.8%	98.0%
European Efficiency	97.1%	97.5%
MPPT Efficiency	99.9%	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*H*D, mm)	308*357*136	355*435*158
Net Weight (kg)	8.2	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	
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 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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