



HiDM

HIGH EFFICIENCY MONO PERC MODULE

CS1K-315 | 320 | 325 | 330MS

With Canadian Solar's innovative module technology and Mono-PERC cell technology, we will offer our customers high power modules up to 330 W with enhanced aesthetics appearance. Through maximizing the light absorption area and removing the loss of ribbon resistance, the module efficiency can reach up to 19.45 %.

The mono modules with a dimension of 1710 × 992 mm, close to our 60 cell modules, have the following unique features:

- **Higher** power classes for commercial solar systems
- **High** module efficiency up to 19.45 %
- **Maximize** the light absorption area
- **LOW** hot spot temperature risk
- **LOW** temperature coefficient (Pmax): $-0.37\% / ^\circ\text{C}$
- **LOW** NMOT (Nominal Module Operating Temperature): $42 \pm 3\text{ }^\circ\text{C}$



High module efficiency
up to 19.45%



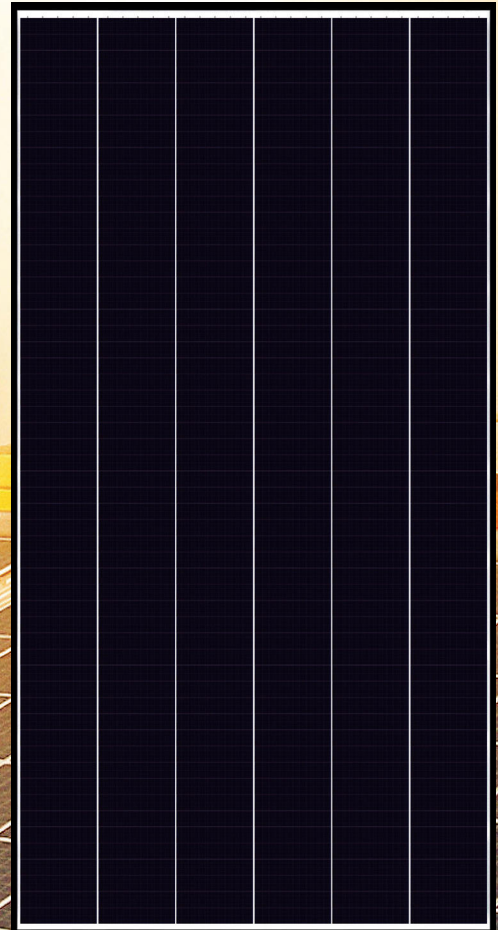
More power output thanks to
low NMOT: $42 \pm 3\text{ }^\circ\text{C}$



Safer: lower hot spot
temperature



Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa



linear power output warranty



**product warranty on materials
and workmanship**

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE

UL 1703 / IEC 61215 performance: FSEC (US Florida)

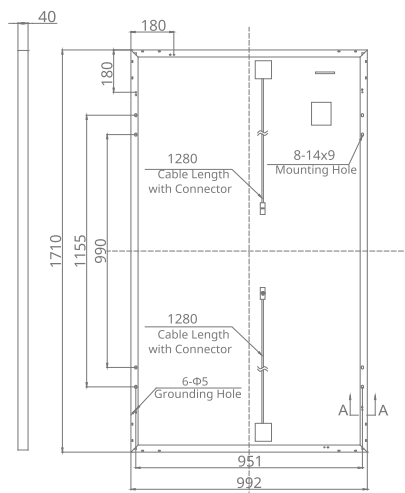
UL 1703: CSA



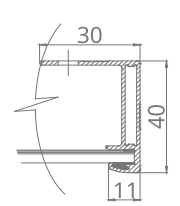
* If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Canadian Solar sales and technical representatives.

ENGINEERING DRAWING (mm)

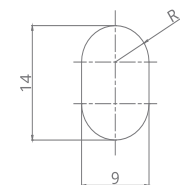
Rear View



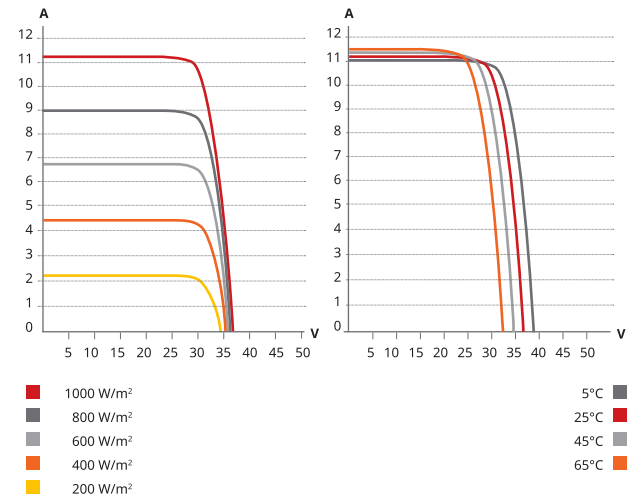
Frame Cross Section A-A



Mounting Hole



CS1K-320MS / I-V CURVES



ELECTRICAL DATA | STC*

CS1K	315MS	320MS	325MS	330MS
Nominal Max. Power (Pmax)	315 W	320 W	325 W	330 W
Opt. Operating Voltage (Vmp)	30.3 V	30.5 V	30.7 V	30.9 V
Opt. Operating Current (Imp)	10.39 A	10.49 A	10.59 A	10.69 A
Open Circuit Voltage (Voc)	36.6 V	36.8 V	37.0 V	37.1 V
Short Circuit Current (Isc)	11.14 A	11.23 A	11.31 A	11.40 A
Module Efficiency	18.57%	18.86%	19.16%	19.45%
Operating Temperature	-40°C ~ +85°C			
Max. System Voltage	1000 V (IEC) or 1000 V (UL)			
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)			
Max. Series Fuse Rating	20 A			
Application Classification	Class A			
Power Tolerance	0 ~ + 5 W			

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. Measurement uncertainty: ±3% (Pmax).

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline, 156.75 × 31.35 mm
Dimensions	1710 × 992 × 40 mm (67.3 × 39.1 × 1.57 in)
Weight	18.9 kg (41.7 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy
J-Box	IP68, 2 diodes
Cable	4.0 mm ² (IEC), 12 AWG (UL), 1280 mm (50.4 in)
Connector	T4 series (MC4 series is available)
Per Pallet	27 pieces
Per Container (40' HQ)	702 pieces

ELECTRICAL DATA | NMOT*

CS1K	315MS	320MS	325MS	330MS
Nominal Max. Power (Pmax)	235 W	239 W	242 W	246 W
Opt. Operating Voltage (Vmp)	27.7 V	27.9 V	28.0 V	28.2 V
Opt. Operating Current (Imp)	8.49 A	8.57 A	8.66 A	8.73 A
Open Circuit Voltage (Voc)	34.4 V	34.6 V	34.8 V	34.9 V
Short Circuit Current (Isc)	8.98 A	9.05 A	9.12 A	9.19 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.37 % / °C
Temperature Coefficient (Voc)	-0.29 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	42±3 °C

PARTNER SECTION



ELECTRICAL SOLUTIONS

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* 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. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

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