



HDM

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 % / °C
- **LOW** NMOT (Nominal Module Operating Temperature): 42 ± 2 °C

KEY FEATURES



More power output thanks to low NMOT: 42 ± 2 °C



Safer: lower hot spot temperature

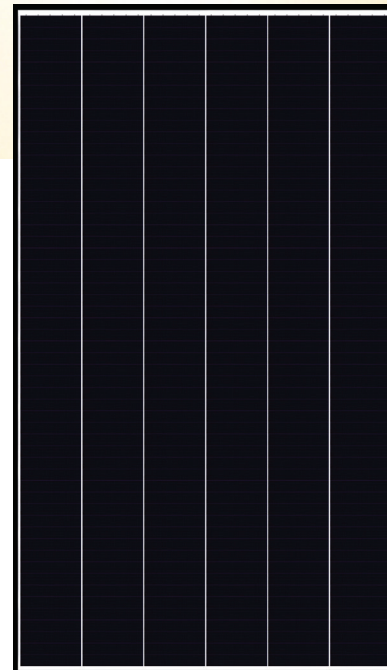


Low power loss in cell connection



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

*For detail information, please refer to Installation Manual.



linear power output warranty



**product warranty on materials
and workmanship**

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2008 / Quality management system

ISO 14001:2004 / Standards for environmental management system

OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: 2005: VDE / CE

UL 1703: CSA



* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

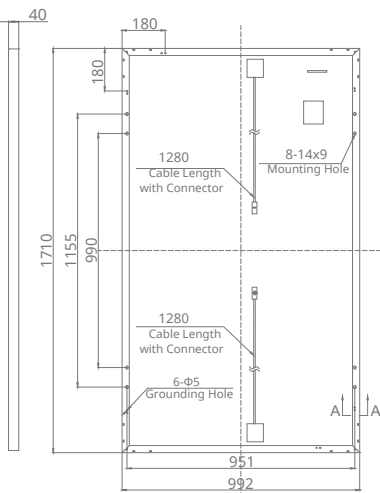
CANADIAN SOLAR (USA), INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 22 GW deployed around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

CANADIAN SOLAR (USA), INC.

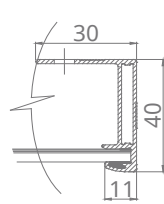
3000 Oak Road, Suite 400, Walnut Creek, CA 94597, USA | www.canadiansolar.com/na | sales.us@canadiansolar.com

ENGINEERING DRAWING (mm)

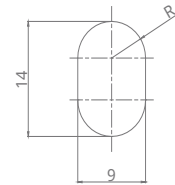
Rear View



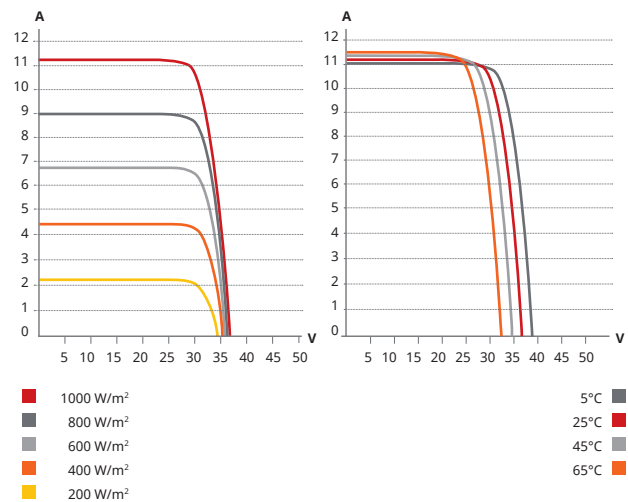
Frame Cross Section A-A



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.

ELECTRICAL DATA | NMOT*

CS1K	315MS	320MS	325MS	330MS
Nominal Max. Power (Pmax)	234 W	238 W	242 W	245 W
Opt. Operating Voltage (Vmp)	27.7 V	27.9 V	28.0 V	28.2 V
Opt. Operating Current (Imp)	8.45 A	8.53 A	8.62 A	8.71 A
Open Circuit Voltage (Voc)	34.3 V	34.4 V	34.6 V	34.8 V
Short Circuit Current (Isc)	8.99 A	9.06 A	9.13 A	9.20 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.

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 (1000 V)
Per Pallet	27 pieces
Per Container (40' HQ)	702 pieces

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±2 °C

PARTNER SECTION



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.

Caution: For professional use only. The installation and handling of PV modules requires professional skills and should only be performed by qualified professionals. Please read the safety and installation instructions before using the modules.