**HiDM-Black**

ALL-BLACK High density MONO PERC module

320 W ~ 340 W

CS1H-320 | 325 | 330 | 335 | 340MS

**MORE POWER**

Maximize the light absorption area, module efficiency up to 20.16 %

Low temperature coefficient (Pmax): -0.37 % / °C

Better shading tolerance

**MORE RELIABLE**

Lower internal current, lower hot spot temperature

Cell crack risk limited in small region, enhance the module reliability

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

25 years linear power output warranty*

10 years product warranty on materials and workmanship*

*According to the applicable Canadian Solar Limited Warranty Statement.

**MANAGEMENT SYSTEM CERTIFICATES**

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental management system

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

**PRODUCT CERTIFICATES**

IEC 61215 / IEC 61730: VDE / CE / MCS

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

UL 1703: CSA / IEC 61701 ED2: VDE / IEC 62716: VDE

**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 33 GW deployed around the world since 2001.

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.
ENGLISH DRAWING (mm)
Rear View
Frame Cross Section A-A

MECHANICAL DATA
Specification	Data
Cell Type	Mono-crystalline
Dimensions 1700 ˣ 992 ˣ 35 mm (66.9 ˣ 39.1 ˣ 1.38 in)
Weight 19.2 kg (42.3 lbs)
Front Cover 3.2 mm tempered glass
Frame Anodized aluminium alloy
J-Box IP68, 3 bypass diodes
Cable 4.0 mm² (IEC), 12 AWG (UL)
Cable Length 1350 mm (53.1 in) (Including Connector)
Connector T4 series or H4 UTX or MC4-EVO2
Per Pallet 30 pieces
Per Container (40’ HQ) 780 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 44±3 °C

ELECTRICAL DATA | STC*
CS1H 320MS 325MS 330MS 335MS 340MS
Nominal Max. Power (Pmax) 320 W 325 W 330 W 335 W 340 W
Opt. Operating Voltage (Vmp) 36.2 V 36.6 V 37.0 V 37.4 V 37.8 V
Opt. Operating Current (Imp) 8.85 A 8.88 A 8.92 A 8.96 A 9.00 A
Open Circuit Voltage (Voc) 44.0 V 44.1 V 44.2 V 44.3 V 44.5 V
Short Circuit Current (Isc) 9.41 A 9.45 A 9.49 A 9.53 A 9.57 A
Module Efficiency 18.98% 19.27% 19.57% 19.86% 20.16%
Operating Temperature -40°C ~ +85°C
Max. System Voltage 1000V (IEC/UL)
Module Fire Performance TYPE 1 (UL 1703) or CLASS C (IEC 61730)
Max. Series Fuse Rating 15 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*
CS1H 320MS 325MS 330MS 335MS 340MS
Nominal Max. Power (Pmax) 236 W 240 W 243 W 247 W 251 W
Opt. Operating Voltage (Vmp) 33.4 V 33.7 V 34.1 V 34.5 V 34.8 V
Opt. Operating Current (Imp) 7.07 A 7.11 A 7.14 A 7.17 A 7.20 A
Open Circuit Voltage (Voc) 41.0 V 41.1 V 41.2 V 41.3 V 41.5 V
Short Circuit Current (Isc) 7.60 A 7.63 A 7.66 A 7.70 A 7.73 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
Dimensions 1700 × 992 × 35 mm (66.9 × 39.1 × 1.38 in)
Weight 19.2 kg (42.3 lbs)
Front Cover 3.2 mm tempered glass
Frame Anodized aluminium alloy
J-Box IP68, 3 bypass diodes
Cable 4.0 mm² (IEC), 12 AWG (UL)
Cable Length 1350 mm (53.1 in) (Including Connector)
Connector T4 series or H4 UTX or MC4-EVO2
Per Pallet 30 pieces
Per Container (40’ HQ) 780 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 44±3 °C

PARTNER SECTION

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.
Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

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