NEW

Preliminary Technical Information Sheet

CanadianSolar

HiDM

HIGH DENSITY MONO PERC MODULE
395 W ~ 410 W
CS1U-395|400|405|410MS

MORE POWER

UP TO 19.89%

Maximize the light absorption area, module efficiency up to 19.89 %

42°C

Low NMOT: 42 ± 3 °C
Low temperature coefficient (Pmax): -0.37 % / °C

Innovative module design, 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**

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: VDE / CE (Expected on August, 2018)
UL 1703: CSA (Expected on September, 2018)

* 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.

CANADIAN SOLAR 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 about 30 GW deployed around the world since 2001, Canadian Solar Inc. is one of the most bankable solar companies worldwide.

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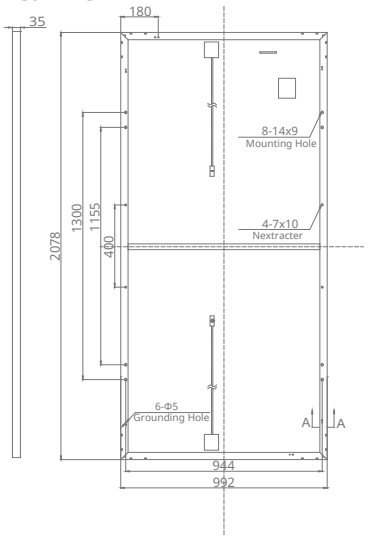
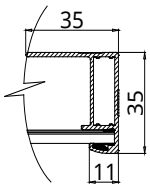
ENGINEERING DRAWING (mm)

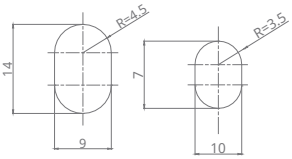
Rear View



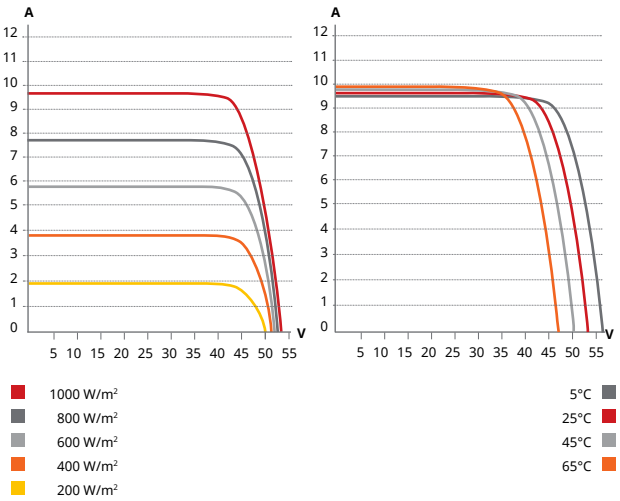
Frame Cross Section A-A



Mounting Hole



CS1U-405MS / I-V CURVES



ELECTRICAL DATA | STC*

CS1U	395MS	400MS	405MS	410MS
Nominal Max. Power (Pmax)	395 W	400 W	405 W	410 W
Opt. Operating Voltage (Vmp)	43.9 V	44.1 V	44.3 V	44.5 V
Opt. Operating Current (Imp)	9.01 A	9.08 A	9.16 A	9.23 A
Open Circuit Voltage (Voc)	53.3 V	53.4 V	53.5 V	53.6 V
Short Circuit Current (Isc)	9.55 A	9.60 A	9.65 A	9.70 A
Module Efficiency	19.16%	19.40%	19.65%	19.89%
Operating Temperature	-40°C ~ +85°C			
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/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*

CS1U	395MS	400MS	405MS	410MS
Nominal Max. Power (Pmax)	295 W	298 W	302 W	306 W
Opt. Operating Voltage (Vmp)	40.1 V	40.2 V	40.4 V	40.6 V
Opt. Operating Current (Imp)	7.36 A	7.42 A	7.47 A	7.53 A
Open Circuit Voltage (Voc)	50.1 V	50.2 V	50.3 V	50.4 V
Short Circuit Current (Isc)	7.70 A	7.74 A	7.78 A	7.82 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	2078 × 992 × 35 mm (81.8 × 39.1 × 1.38 in)
Weight	23.4 kg (51.6 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy
J-Box	IP67, 4 bypass diodes
Cable	4.0 mm² (IEC), 12 AWG (UL)
Connector	T4 series
Per Pallet	30 pieces
Per Container (40' HQ)	660 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±3 °C

PARTNER SECTION

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