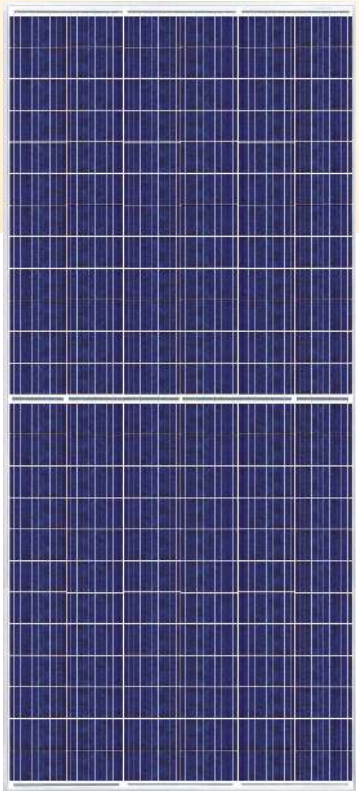
NEW

CanadianSolar



HiKu

SUPER HIGH POWER POLY PERC MODULE

390 W ~ 405 W

CS3W-390|395|400|405P

MORE POWER

- 24 % more power than conventional modules
- Up to 4.5 % lower LCOE
  Up to 2.7 % lower system cost
- 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 3600 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: 2005 & 2016: VDE / CE
UL 1703: CSA (Expected in July, 2018)

* Please contact your local Canadian Solar sales representative for the specific product certificates applicable in your market.

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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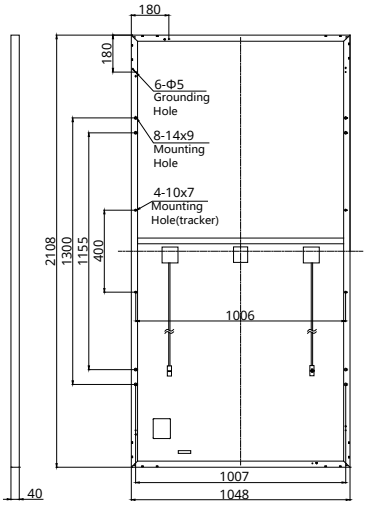
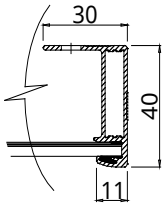
ENGINEERING DRAWING (mm)

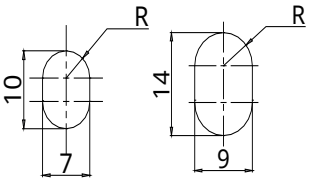
Rear View



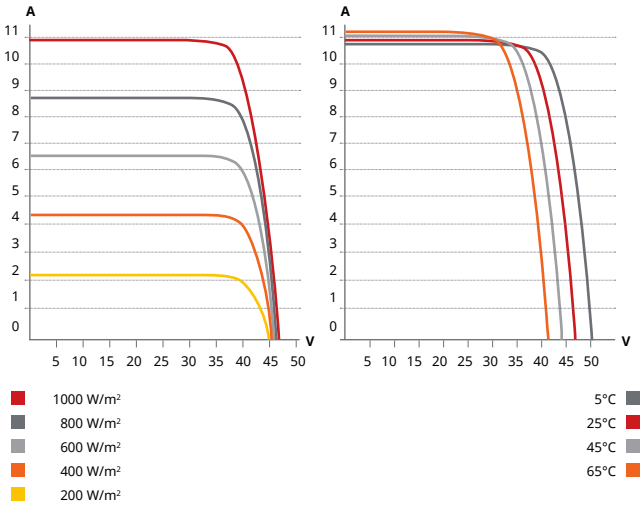
Frame Cross Section A-A



Mounting Hole



CS3W-400P / I-V CURVES



ELECTRICAL DATA | STC*

CS3W	390P	395P	400P	405P
Nominal Max. Power (Pmax)	390 W	395 W	400 W	405 W
Opt. Operating Voltage (Vmp)	38.3 V	38.5 V	38.7 V	38.9 V
Opt. Operating Current (Imp)	10.19 A	10.26 A	10.34 A	10.42 A
Open Circuit Voltage (Voc)	46.8 V	47.0 V	47.2 V	47.4 V
Short Circuit Current (Isc)	10.74 A	10.82 A	10.90 A	10.98 A
Module Efficiency	17.65%	17.88%	18.11%	18.33%
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*

CS3W	390P	395P	400P	405P
Nominal Max. Power (Pmax)	290 W	293 W	297 W	301 W
Opt. Operating Voltage (Vmp)	34.9 V	35.1 V	35.3 V	35.5 V
Opt. Operating Current (Imp)	8.31 A	8.35 A	8.42 A	8.48 A
Open Circuit Voltage (Voc)	43.8 V	44.0 V	44.2 V	44.4 V
Short Circuit Current (Isc)	8.67 A	8.72 A	8.78 A	8.85 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	Poly-crystalline
Cell Arrangement	144 [2 X (12 X 6)]
Dimensions	2108 X 1048 X 40 mm (83.0 X 41.3 X 1.57 in)
Weight	24.9 kg (54.9 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy, crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	1400 mm (55.1 in), 1700 mm (66.9 in) is optional for single tracking system with leap-frog connection
Connector	T4 series
Per Pallet	27 pieces
Per Container (40' HQ)	594 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

* 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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