NEW

CanadianSolar

# HiKu

## SUPER HIGH POWER POLY PERC MODULE

## 395 W ~ 415 W

### CS3W-395|400|405|410|415P

### 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
- 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 9001:2015 / 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 / CEC AU
IEC61701 ED2: VDE / IEC62716: VDE
UL 1703: CSA
Take-e-way

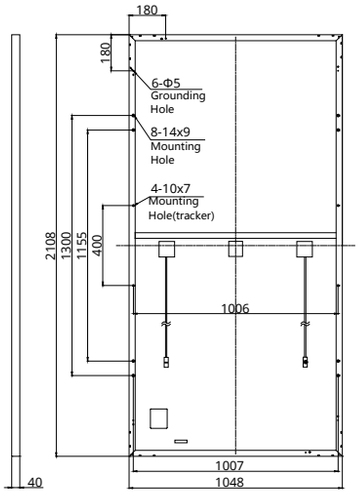
* We can provide this product with special BOM specifically certified with salt mist, and ammonia tests. Please talk to our local technical sales representatives to get your customized solutions.

**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 30 GW deployed around the world since 2001.

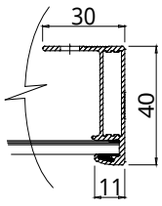
**CANADIAN SOLAR INC.**
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

## ENGINEERING DRAWING (mm)

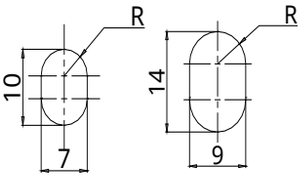
### Rear View



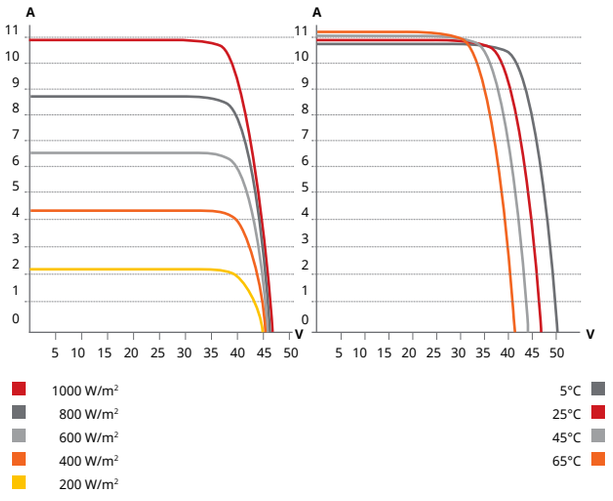

### Frame Cross Section A-A




### Mounting Hole




## CS3W-400P / I-V CURVES




## ELECTRICAL DATA | STC*

| CS3W | 395P | 400P | 405P | 410P | 415P |
|---|---|---|---|---|---|
| Nominal Max. Power (Pmax) | 395 W | 400 W | 405 W | 410 W | 415 W |
| Opt. Operating Voltage (Vmp) | 38.5 V | 38.7 V | 38.9 V | 39.1 V | 39.3 V |
| Opt. Operating Current (Imp) | 10.26 A | 10.34 A | 10.42 A | 10.49 A | 10.56 A |
| Open Circuit Voltage (Voc) | 47.0 V | 47.2 V | 47.4 V | 47.6 V | 47.8 V |
| Short Circuit Current (Isc) | 10.82 A | 10.90 A | 10.98 A | 11.06 A | 11.14 A |
| Module Efficiency | 17.88% | 18.11% | 18.33% | 18.56% | 18.79% |
| 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 | 395P | 400P | 405P | 410P | 415P |
|---|---|---|---|---|---|
| Nominal Max. Power (Pmax) | 293 W | 297 W | 301 W | 304 W | 308 W |
| Opt. Operating Voltage (Vmp) | 35.1 V | 35.3 V | 35.5 V | 35.7 V | 35.9 V |
| Opt. Operating Current (Imp) | 8.35 A | 8.42 A | 8.48 A | 8.52 A | 8.58 A |
| Open Circuit Voltage (Voc) | 44.0 V | 44.2 V | 44.4 V | 44.6 V | 44.8 V |
| Short Circuit Current (Isc) | 8.72 A | 8.78 A | 8.85 A | 8.90 A | 8.97 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) | Portrait: 500 mm (19.7 in) (+) / 350 mm (13.8 in) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)* |
| Connector | T4 series |
| Per Pallet | 27 pieces |
| Per Container (40' HQ) | 594 pieces |

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

## 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.
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.

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