



HiKu5 Poly

435 W ~ 460 W

CS3Y-435 | 440 | 445 | 450 | 455 | 460P

MORE POWER



Module power up to 460 W
Module efficiency up to 19.5 %



Lower LCOE & BOS cost,
cost effective product for utility power plant



Comprehensive LID / LeTID mitigation
technology, up to 50% lower degradation



Compatible with mainstream trackers



Better shading tolerance

MORE RELIABLE



Carbon footprint reduced up to 25%



Minimizes micro-crack impacts



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



**Enhanced Product Warranty on Materials
and Workmanship***



Linear Power Performance Warranty*

**1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.55%**

*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

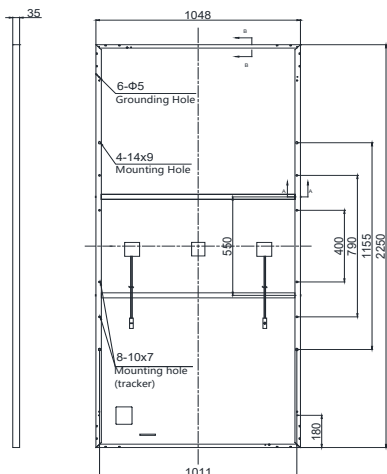
PRODUCT CERTIFICATES*

* 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.

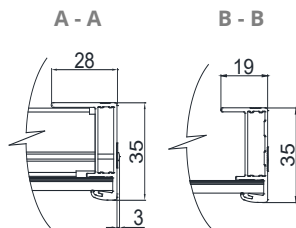
CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 40 GW deployed around the world since 2001.

ENGINEERING DRAWING (mm)

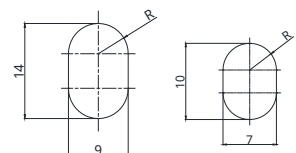
Rear View



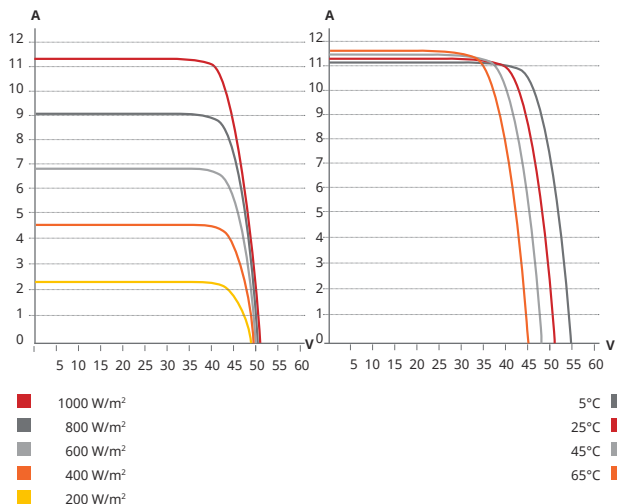
Frame Cross Section



Mounting Hole



CS3Y-450P / I-V CURVES



ELECTRICAL DATA | STC*

| CS3Y | 435P | 440P | 445P | 450P | 455P | 460P |
|------------------------------|--|---------|---------|---------|---------|---------|
| Nominal Max. Power (Pmax) | 435 W | 440 W | 445 W | 450 W | 455 W | 460 W |
| Opt. Operating Voltage (Vmp) | 41.8 V | 42.0 V | 42.2 V | 42.4 V | 42.6 V | 42.8 V |
| Opt. Operating Current (Imp) | 10.41 A | 10.48 A | 10.55 A | 10.62 A | 10.69 A | 10.75 A |
| Open Circuit Voltage (Voc) | 51.0 V | 51.2 V | 51.4 V | 51.6 V | 51.8 V | 52.0 V |
| Short Circuit Current (Isc) | 11.13 A | 11.18 A | 11.23 A | 11.28 A | 11.33 A | 11.38 A |
| Module Efficiency | 18.4% | 18.7% | 18.9% | 19.1% | 19.3% | 19.5% |
| Operating Temperature | -40°C ~ +85°C | | | | | |
| Max. System Voltage | 1500V (IEC/UL) or 1000V (IEC/UL) | | | | | |
| Module Fire Performance | TYPE 1 (UL 61730) or CLASS C (IEC 61730) | | | | | |
| Max. Series Fuse Rating | 20 A | | | | | |
| Application Classification | Class A | | | | | |
| Power Tolerance | 0 ~ + 10 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*

| CS3Y | 435P | 440P | 445P | 450P | 455P | 460P |
|------------------------------|--------|--------|--------|--------|--------|--------|
| Nominal Max. Power (Pmax) | 324 W | 328 W | 331 W | 335 W | 339 W | 342 W |
| Opt. Operating Voltage (Vmp) | 38.9 V | 39.1 V | 39.3 V | 39.5 V | 39.6 V | 39.8 V |
| Opt. Operating Current (Imp) | 8.33 A | 8.39 A | 8.43 A | 8.49 A | 8.57 A | 8.60 A |
| Open Circuit Voltage (Voc) | 47.9 V | 48.1 V | 48.3 V | 48.5 V | 48.7 V | 48.8 V |
| Short Circuit Current (Isc) | 8.98 A | 9.02 A | 9.06 A | 9.10 A | 9.14 A | 9.18 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 | 156 [2 X (13 X 6)] |
| Dimensions | 2250 X 1048 X 35 mm (88.6 X 41.3 X 1.38 in) |
| Weight | 26.3 kg (58.0 lbs) |
| Front Cover | 3.2 mm tempered glass |
| Frame | Anodized aluminium alloy, 2 crossbars enhanced |
| J-Box | IP68, 3 bypass diodes |
| Cable | 4 mm ² (IEC), 12 AWG (UL) |
| Cable Length (Including Connector) | 500 mm (19.7 in) (+) / 350 mm (13.8 in) (-) or customized length* |
| Connector | T4 series or H4 UTX or MC4-EVO2 |
| Per Pallet | 30 pieces |
| Per Container (40' HQ) | 600 pieces |

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

TEMPERATURE CHARACTERISTICS

| Specification | Data |
|--------------------------------------|--------------|
| Temperature Coefficient (Pmax) | -0.36 % / °C |
| Temperature Coefficient (Voc) | -0.28 % / °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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