



Preliminary Technical
Information Sheet



KuPower

HIGH EFFICIENCY POLY^{GEN 3} MODULE

CS3K-275 | 280 | 285P

(1000 V / 1500 V)

With Canadian Solar's industry leading black silicon cell technology and the innovative LIC (Low Internal Current) module technology, we are now able to offer our global customers high power poly modules up to 285 W.

The KuPower poly modules with a dimension of 1675 × 992 mm, close to our 60 cell modules, have the following unique features:

- **Higher** power classes for equivalent module sizes
- **High** module efficiency up to 17.15 %
- **LOW** hot spot temperature risk
- **LOW** temperature coefficient (Pmax): -0.39 % / °C
- **LOW** NMOT (Nominal Module Operating Temperature): 43 ± 2 °C



More power output thanks to
low NMOT: 43 ± 2 °C



Low power loss in cell
connection



Safer: lower hot spot
temperature



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



Low BoS cost with
1500 V_{dc} system voltage



25
years linear power output warranty



10
years product warranty on materials
and workmanship

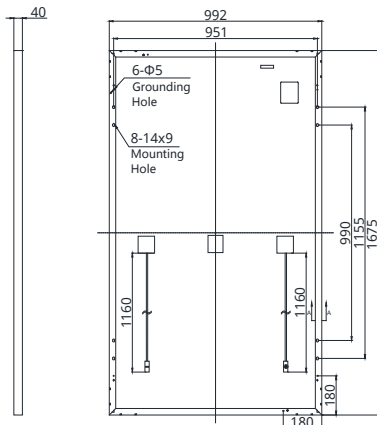
PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: 2005 & 2016: VDE / CE (Expected by middle of June, 2017)

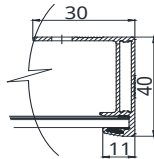
* Please contact your local Canadian Solar sales representative for the specific product certificates applicable in your market.

ENGINEERING DRAWING (mm)

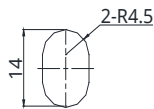
Rear View



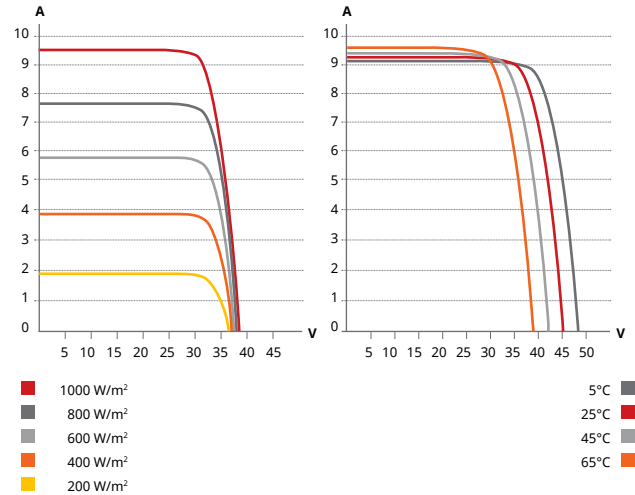
Frame Cross Section A-A



Mounting Hole



CS3K-280P / I-V CURVES



ELECTRICAL DATA | STC*

| CS3K | 275P | 280P | 285P |
|------------------------------|---|--------|--------|
| Nominal Max. Power (Pmax) | 275 W | 280 W | 285 W |
| Opt. Operating Voltage (Vmp) | 31.0 V | 31.2 V | 31.4 V |
| Opt. Operating Current (Imp) | 8.88 A | 8.98 A | 9.08 A |
| Open Circuit Voltage (Voc) | 37.7 V | 37.9 V | 38.1 V |
| Short Circuit Current (Isc) | 9.38 A | 9.47 A | 9.56 A |
| Module Efficiency | 16.55% | 16.85% | 17.15% |
| Operating Temperature | -40°C ~ +85°C | | |
| Max. System Voltage | 1000 V (IEC / UL) or 1500 V (IEC / UL) | | |
| Module Fire Performance | TYPE 1 (UL 1703) or CLASS C (IEC 61730) | | |
| Max. Series Fuse Rating | 30 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*

| CS3K | 275P | 280P | 285P |
|------------------------------|--------|--------|--------|
| Nominal Max. Power (Pmax) | 200 W | 204 W | 208 W |
| Opt. Operating Voltage (Vmp) | 28.3 V | 28.5 V | 28.7 V |
| Opt. Operating Current (Imp) | 7.07 A | 7.16 A | 7.25 A |
| Open Circuit Voltage (Voc) | 34.9 V | 35.1 V | 35.3 V |
| Short Circuit Current (Isc) | 7.58 A | 7.66 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 | Poly-crystalline, 156 × 78 mm |
| Cell Arrangement | 120 [2 × (10 × 6)] |
| Dimensions | 1675 × 992 × 40 mm (65.9 × 39.1 × 1.57 in) |
| Weight | 18.5 kg (40.8 lbs) |
| Front Cover | 3.2 mm tempered glass |
| Frame | Anodized aluminium alloy |
| J-Box | IP68, 3 diodes |
| Cable | 4.0 mm ² & 12 AWG, 1160 mm (45.7 in) |
| Connector | T4 series or UTX or MC4 series (1500 V), T4 series (1000 V) |
| Per Pallet | 26 pieces |
| Per Container (40' HQ) | 728 pieces |

TEMPERATURE CHARACTERISTICS

| Specification | Data |
|--------------------------------------|--------------|
| Temperature Coefficient (Pmax) | -0.39 % / °C |
| Temperature Coefficient (Voc) | -0.31 % / °C |
| Temperature Coefficient (Isc) | 0.053 % / °C |
| Nominal Module Operating Temperature | 43±2 °C |

PARTNER SECTION



The aforesaid datasheet only provides the general information on Canadian Solar products and, due to the on-going innovation and improvement, please always contact your local Canadian Solar sales representative for the updated information on specifications, key features and certification requirements of Canadian Solar products in your region.

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.