



Preliminary Technical  
Information Sheet



# KuPower

## SUPER HIGH EFFICIENCY POLY<sup>GEN 4</sup> MODULE

### CS3K-285 | 290 | 295 | 300P

#### (1000 V / 1500 V)

With Canadian Solar's industry leading poly-PERC 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 300 W.

The KuPower poly modules with a dimension of 1675 x 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 18.11 %
- **LOW** hot spot temperature risk
- **LOW** temperature coefficient (Pmax): -0.39 % / °C
- **LOW** NMOT (Nominal Module Operating Temperature):  $43 \pm 2$  °C



More power output thanks to  
low NMOT:  $43 \pm 2$  °C



Low power loss in cell  
connection



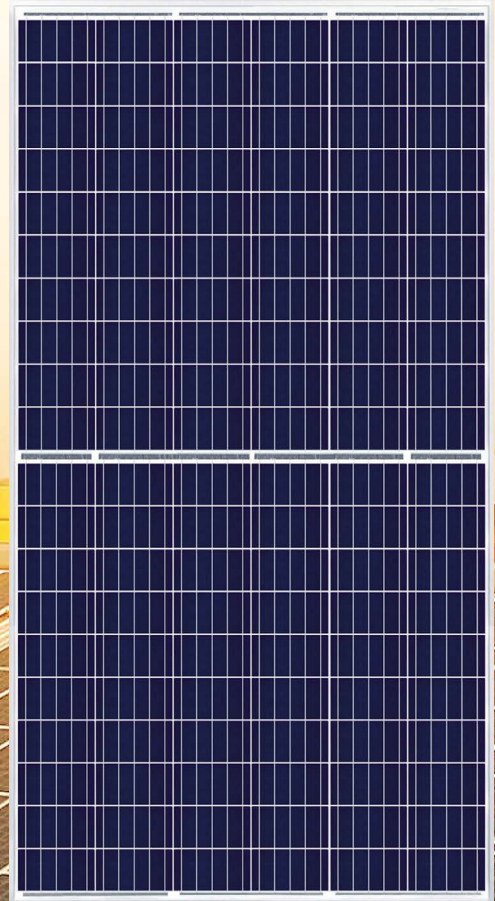
Safer: lower hot spot  
temperature



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



Low BoS cost with  
1500 V<sub>DC</sub> system voltage



linear power output warranty



product warranty on materials  
and workmanship

#### PRODUCT CERTIFICATES\*

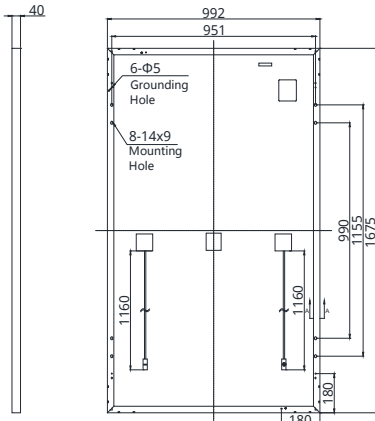
IEC 61215 / IEC 61730: 2005 & 2016: VDE / CE (pending)

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

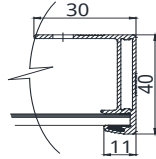


## ENGINEERING DRAWING (mm)

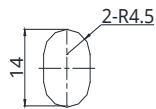
### Rear View



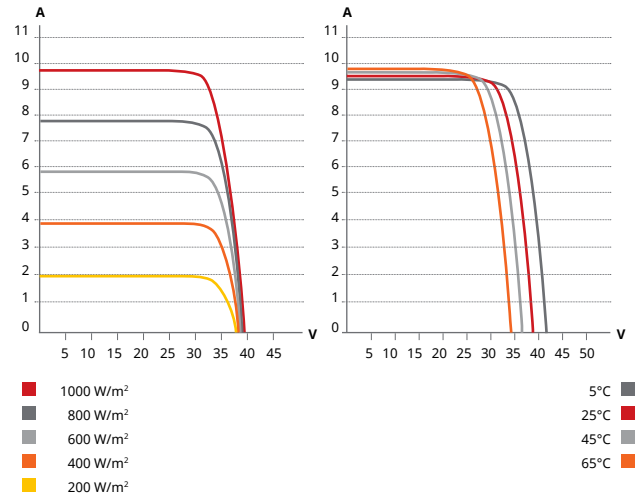
### Frame Cross Section A-A



### Mounting Hole



## CS3K-290P / I-V CURVES



## ELECTRICAL DATA | STC\*

CS3K	285P	290P	295P	300P
Nominal Max. Power (Pmax)	285 W	290 W	295 W	300 W
Opt. Operating Voltage (Vmp)	32.1 V	32.3 V	32.5 V	32.7 V
Opt. Operating Current (Imp)	8.92 A	8.98 A	9.08 A	9.18 A
Open Circuit Voltage (Voc)	38.7 V	38.9 V	39.1 V	39.3 V
Short Circuit Current (Isc)	9.42 A	9.49 A	9.57 A	9.65 A
Module Efficiency	17.20%	17.51%	17.81%	18.11%
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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## 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 <sup>2</sup> & 12 AWG, 1160 mm
Connector	T4 series or UTX or MC4 series (1500 V), T4 series (1000 V)
Per Pallet	26 pieces
Per Container (40' HQ)	728 pieces

## ELECTRICAL DATA | NMOT\*

CS3K	285P	290P	295P	300P
Nominal Max. Power (Pmax)	211 W	215 W	218 W	222 W
Opt. Operating Voltage (Vmp)	29.3 V	29.5 V	29.7 V	29.8 V
Opt. Operating Current (Imp)	7.21 A	7.29 A	7.36 A	7.45 A
Open Circuit Voltage (Voc)	36.1 V	36.3 V	36.5 V	36.7 V
Short Circuit Current (Isc)	7.60 A	7.67 A	7.73 A	7.79 A

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

## TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.39 % / °C
Temperature Coefficient (Voc)	-0.30 % / °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.