



# KuPower

CS3K-275 | 280 | 285P  
(1000 V / 1500 V)



5BB

\*Black frame product can be provided upon request.

### MORE POWER



Low power loss in cell connection



Low NMOT:  $42 \pm 3$  °C  
Low temperature coefficient (Pmax):  $-0.38$  % / °C



Better shading tolerance



High PTC rating of up to: 92.49 %

### MORE RELIABLE



Lower hot spot temperature



Minimizes micro-cracks



Heavy snow load up to 6000 Pa,  
wind load up to 4000 Pa\*



linear power output warranty



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 / MCS / CEC AU  
UL 1703 / IEC 61215 performance: CEC listed (US) / FSEC (US Florida)  
UL 1703: CSA / IEC61701 ED2: VDE / IEC62716: VDE / IEC60068-2-68: SGS  
Take-e-way



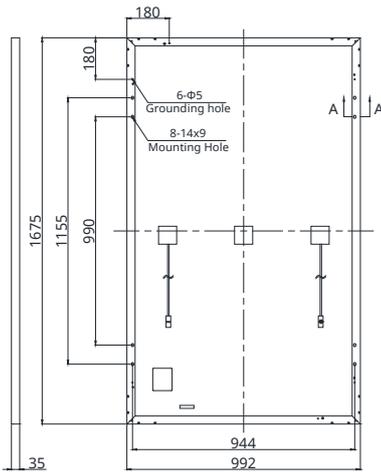
\*We can provide this product with special BOM specifically certified with salt mist, ammonia and sand blowing tests. Please talk to our local technical sales representatives to get your customized solutions.

**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.

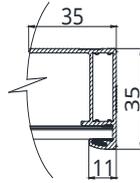
\* For detailed information, please refer to Installation Manual.

## ENGINEERING DRAWING (mm)

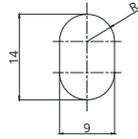
### Rear View



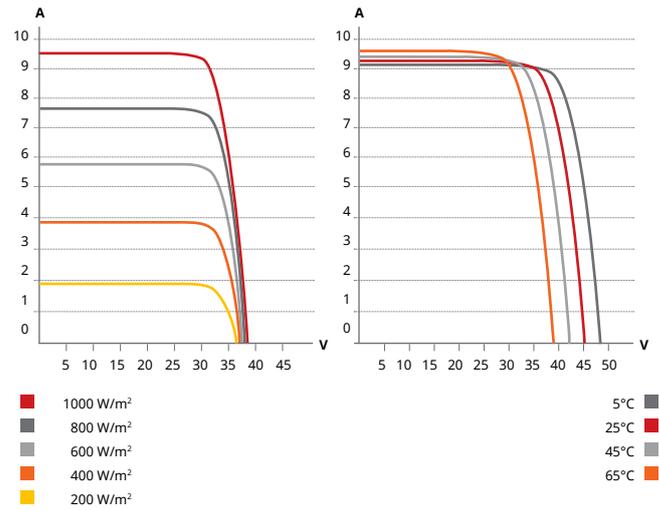
### Frame Cross Section A-A



### 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	1500V (IEC/UL) or 1000V (IEC/UL)		
Module Fire Performance	TYPE 3 / Type 13 (UL 1703) or CLASS A (IEC61730)		
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.

## ELECTRICAL DATA | NMOT\*

CS3K	275P	280P	285P
Nominal Max. Power (Pmax)	204 W	208 W	211 W
Opt. Operating Voltage (Vmp)	28.6 V	28.8 V	29.0 V
Opt. Operating Current (Imp)	7.12 A	7.21 A	7.29 A
Open Circuit Voltage (Voc)	35.2 V	35.4 V	35.6 V
Short Circuit Current (Isc)	7.57 A	7.64 A	7.71 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.

## MECHANICAL DATA

Specification	Data
Cell Type	Poly-crystalline
Cell Arrangement	120 [2 X (10 X 6)]
Dimensions	1675 X 992 X 35 mm (65.9 X 39.1 X 1.38 in)
Weight	18.5 kg (40.8 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4.0 mm <sup>2</sup> (IEC), 12 AWG (UL),
Cable Length (Including Connector)	Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-); landscape: 1160 mm (45.7 in)*
Connector	T4 series
Per Pallet	30 pieces
Per Container (40' HQ)	840 pieces

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

## TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.38 % / °C
Temperature Coefficient (Voc)	-0.31 % / °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.

## CANADIAN SOLAR INC.

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