

# KuPower

## HIGH EFFICIENCY MONO PERC MODULE

### CS3K-300 | 305 | 310 | 315MS

#### (1000 V / 1500 V)

With Canadian Solar's industry leading mono-PERC cell technology and the innovative LIC (Low Internal Current) module technology, we are now able to offer our global customers high power mono modules up to 315 W.

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

#### MORE POWER



Low power loss in cell connection



Low NMOT:  $41 \pm 3$  °C  
Low temperature coefficient (Pmax):  $-0.37$  % / °C



Better shading tolerance



High PTC rating of up to: 93.13 %

#### MORE RELIABLE



Lower hot spot temperature



Minimizes micro-cracks



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

MBB

5BB

\*Black frame product can be provided upon request.



linear power output warranty



product warranty on materials and workmanship

#### MANAGEMENT SYSTEM CERTIFICATES\*

ISO 9001:2008 / Quality management system  
ISO 14001:2004 / Standards for environmental management system  
OHSAS 18001:2007 / International standards for occupational health & safety

#### PRODUCT CERTIFICATES\*

IEC 61215 / IEC 61730: VDE / CE  
UL 1703: CSA



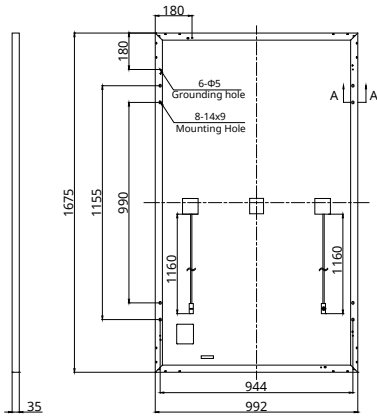
\* If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Canadian Solar sales and technical representatives.

**CANADIAN SOLAR INC.** is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 25 GW deployed around the world since 2001, Canadian Solar Inc. is one of the most bankable solar companies worldwide.

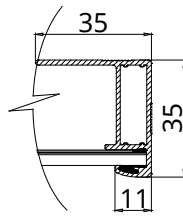
\* For detailed information, please refer to Installation Manual.

## ENGINEERING DRAWING (mm)

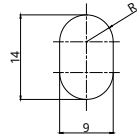
### Rear View



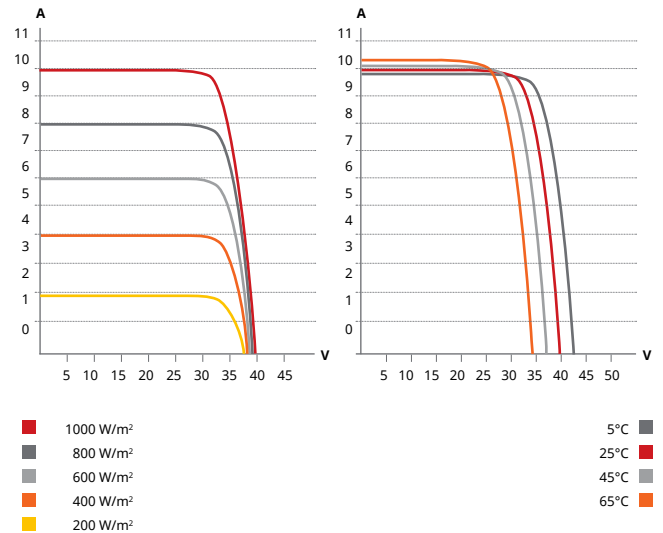
### Frame Cross Section A-A



### Mounting Hole



## CS3K-305MS / I-V CURVES



## ELECTRICAL DATA | STC\*

CS3K	300MS	305MS	310MS	315MS
Nominal Max. Power (Pmax)	300 W	305 W	310 W	315 W
Opt. Operating Voltage (Vmp)	32.5 V	32.7 V	32.9 V	33.1 V
Opt. Operating Current (Imp)	9.24 A	9.33 A	9.43 A	9.52 A
Open Circuit Voltage (Voc)	39.3 V	39.5 V	39.7 V	39.9 V
Short Circuit Current (Isc)	9.82 A	9.90 A	9.98 A	10.06 A
Module Efficiency	18.05%	18.36%	18.66%	18.96%
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	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	300MS	305MS	310MS	315MS
Nominal Max. Power (Pmax)	224 W	228 W	231 W	235 W
Opt. Operating Voltage (Vmp)	30.2 V	30.3 V	30.5 V	30.7 V
Opt. Operating Current (Imp)	7.42 A	7.50 A	7.58 A	7.65 A
Open Circuit Voltage (Voc)	37.0 V	37.1 V	37.3 V	37.5 V
Short Circuit Current (Isc)	7.92 A	7.98 A	8.05 A	8.11 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	Mono-crystalline, 156.75 X 78.38 mm
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) , 1160 mm (45.7 in)
Connector	T4 series
Per Pallet	30 pieces
Per Container (40' HQ)	840 pieces

## 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	41 ± 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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