



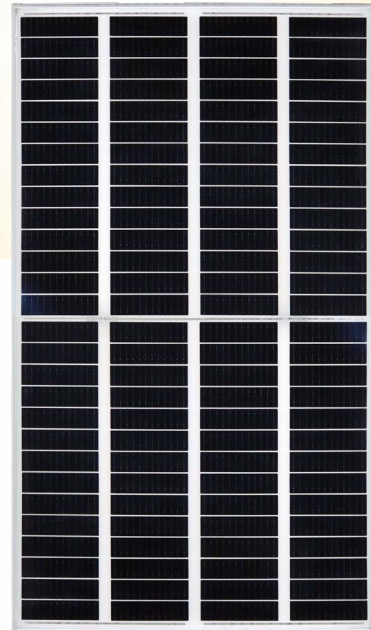
Old Module Replacement

KuPower Mono PERC

270 W ~ 290 W

CS6P-270 | 275 | 280 | 285 | 290P-PLUS

Perfect Size to Replace 6" 60 Cell Module
Excellent Electrical Compatibility



- Module size 1638 x 982 mm
Perfect size to replace 6" 60 cell module
- Single module replacement possible
- Minimize BoS cost for module replacement
- Can be used to replace other brand 6" 60 cell module

10 Years Enhanced Product Warranty on Materials and Workmanship*

25 Years Linear Power Performance Warranty*

*According to the applicable Canadian Solar Limited Warranty Statement. For detailed information, please contact your local Canadian Solar sales and technical representatives.

Enhanced Energy Yield and Product Reliability

- Low power loss in cell connection
- Better shading tolerance
- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, enhanced wind load up to 2400 Pa**

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 (pending)

* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your product and applicable in the regions in which the products will be used.

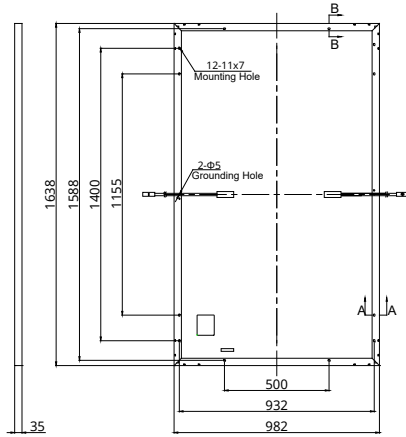
CSI Solar Co., Ltd. is committed to providing high quality solar products, solar system solutions and services to customers around the world. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 55 GW deployed around the world since 2001.

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

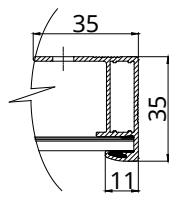
** For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)

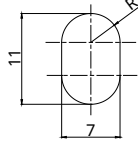
Rear View



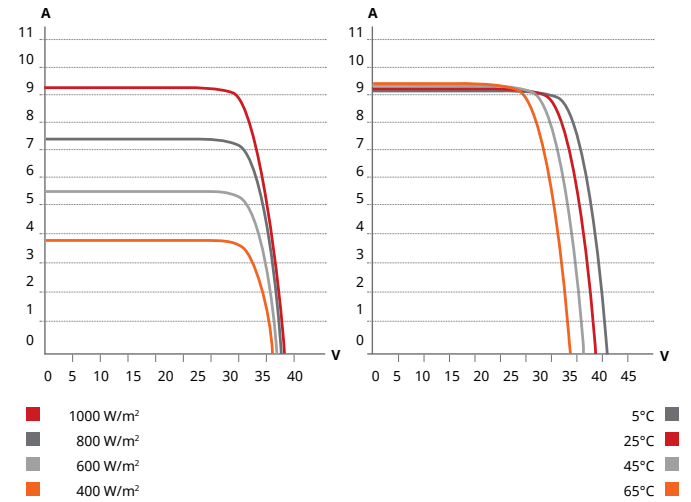
Frame Cross Section A-A



Mounting Hole



CS6P-270P-PLUS / I-V CURVES



ELECTRICAL DATA | STC*

CS6P-270/275/280/285/290P-PLUS

	270 W	275 W	280 W	285 W	290 W
Nominal Max. Power (Pmax)	270 W	275 W	280 W	285 W	290 W
Opt. Operating Voltage (Vmp)	31.4 V	31.6 V	31.8 V	32.0 V	32.2 V
Opt. Operating Current (Imp)	8.61 A	8.71 A	8.82 A	8.92 A	9.01 A
Open Circuit Voltage (Voc)	37.9 V	38.1 V	38.3 V	38.5 V	38.7 V
Short Circuit Current (Isc)	9.17 A	9.23 A	9.29 A	9.4 A	9.48 A
Module Efficiency	16.8%	17.1%	17.4%	17.7%	18.0%
Operating Temperature	-40°C ~ +85°C				
Max. System Voltage	1000V (IEC/UL) or 1500V (IEC/UL)				
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL61730 1000V) 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*

CS6P-270/275/280/285/290P-PLUS

	203 W	206 W	210 W	214 W	218 W
Nominal Max. Power (Pmax)	203 W	206 W	210 W	214 W	218 W
Opt. Operating Voltage (Vmp)	29.4 V	29.6 V	29.8 V	30.0 V	30.2 V
Opt. Operating Current (Imp)	6.88 A	6.96 A	7.05 A	7.13 A	7.21 A
Open Circuit Voltage (Voc)	35.8 V	36.0 V	36.2 V	36.4 V	36.6 V
Short Circuit Current (Isc)	7.39 A	7.44 A	7.49 A	7.58 A	7.64 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	Mono-crystalline
Cell Arrangement	112 [4 X (14 X 2)]
Dimensions	1638 X 982 X 35 mm (64.5 X 38.7 X 1.38 in)
Weight	18.0 kg (42.5 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy
J-Box	IP68, 2 bypass diodes
Cable	4.0 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-) (supply additional cable jumper: 2 lines/pallet); landscape: 1160 mm (45.7 in)*
Connector	T4 series or MC4-EVO2
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)	-0.34 % / °C
Temperature Coefficient (Voc)	-0.26 % / °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. CSI Solar Co., Ltd. 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.

CSI Solar Co., Ltd.

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