CanadianSolar



HiKu7 Mono PERC

585 W ~ 615 W

CS7L-585|590|595|600|605|610|615MS (IEC1000 V)

CS7L-585|590|595|600|605|610|615MS (IEC1500 V)

MORE POWER

615 W — Module power up to 615 W
Module efficiency up to 21.7 %

Up to 3.5 % lower LCOE
Up to 5.7 % lower system cost

Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation

Better shading tolerance

MORE RELIABLE

40 °C lower hot spot temperature, greatly reduce module failure rate

Minimizes micro-crack impacts

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

25 Years — **Linear Power Performance Warranty***

12 Years Enhanced Product Warranty on Materials and Workmanship*

1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.55%

*According to the applicable Canadian Solar Limited Warranty Statement.

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
IEC62941 : 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
UL 61730 / IEC 61701 / IEC 62716 / IEC 63126 Level1 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way

* 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.

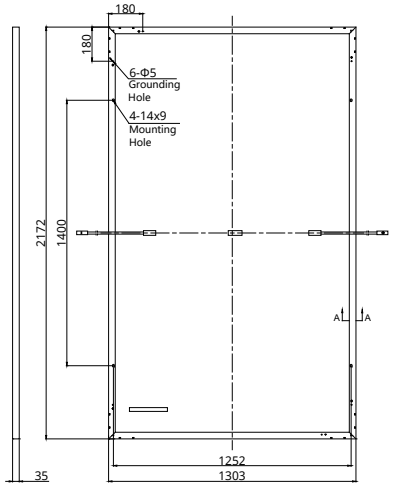
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 23 years, it has successfully delivered over 125 GW of premium-quality solar modules across the world.

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

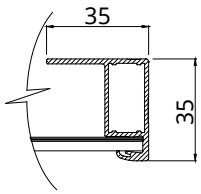
Canadian Solar MSS (Australia) Pty Ltd.
Level 27, 101 Collins Street,Melbourne VIC 3000, Australia, sales.au@csisolar.com, www.csisolar.com/au

ENGINEERING DRAWING (mm)

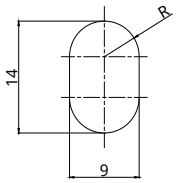
Rear View



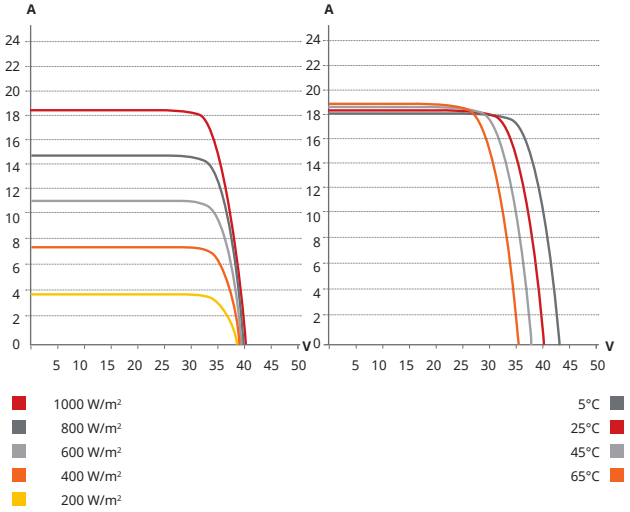
Frame Cross Section A-A



Mounting Hole



CS7L-590MS / I-V CURVES



ELECTRICAL DATA | STC*

CS7L	585MS	590MS	595MS	600MS	605MS	610MS	615MS
Nominal Max. Power (Pmax)	585 W	590 W	595 W	600 W	605 W	610 W	615 W
Opt. Operating Voltage (Vmp)	34.3 V	34.5 V	34.7 V	34.9 V	35.1 V	35.3 V	35.4 V
Opt. Operating Current (Imp)	17.06 A	17.11 A	17.15 A	17.20 A	17.25 A	17.29 A	17.38 A
Open Circuit Voltage (Voc)	40.7 V	40.9 V	41.1 V	41.3 V	41.5 V	41.7 V	41.9 V
Short Circuit Current (Isc)	18.32 A	18.37 A	18.42 A	18.47 A	18.52 A	18.57 A	18.62 A
Module Efficiency	20.7%	20.8%	21.0%	21.2%	21.4%	21.6%	21.7%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (IEC/UL)) or 1000V (IEC/UL))						
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)						
Max. Series Fuse Rating	30 A						
Protection Class	Class II						
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. Measurement uncertainty: ±3 % (Pmax).

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	120 [2 x (10 x 6)]
Dimensions	2172 × 1303 × 35 mm (85.5 × 51.3 × 1.38 in)
Weight	30.9 kg (68.1 lbs)
Front Cover	3.2 mm tempered glass with anti-reflective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	360 mm (14.2 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	Tlian: T6; Stäubli: PV-KST4-EVO2/XY, PV-KBT4-EVO2/XY or PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy
Per Pallet	31 pieces
Per Container (40' HQ)	558 pieces

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

ELECTRICAL DATA | NMOT*

CS7L	585MS	590MS	595MS	600MS	605MS	610MS	615MS
Nominal Max. Power (Pmax)	439 W	442 W	446 W	450 W	454 W	457 W	461 W
Opt. Operating Voltage (Vmp)	32.2 V	32.3 V	32.5 V	32.7 V	32.9 V	33.1 V	33.2 V
Opt. Operating Current (Imp)	13.64 A	13.70 A	13.73 A	13.77 A	13.80 A	13.83 A	13.90 A
Open Circuit Voltage (Voc)	38.5 V	38.7 V	38.8 V	39.0 V	39.2 V	39.4 V	39.6 V
Short Circuit Current (Isc)	14.77 A	14.80 A	14.85 A	14.89 A	14.93 A	14.97 A	15.01 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.

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.

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* Manufactured and assembled in China and Thailand.