



# HiKu7 Mono PERC

640 W ~ 670 W

CS7N-640|645|650|655|660|665|670MS(IEC1000 V) CS7N-640|645|650|655|660|665|670MS (IEC1500 V)

#### **MORE POWER**



Module power up to 670 W Module efficiency up to 21.6 %



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\*

**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

#### **PRODUCT CERTIFICATES\***

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68 UNI 9177 Reaction to Fire: Class 1 / Take-e-way Canadian Solar recycles panels at the end of life cycle











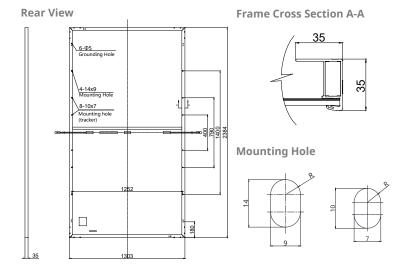


\* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates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

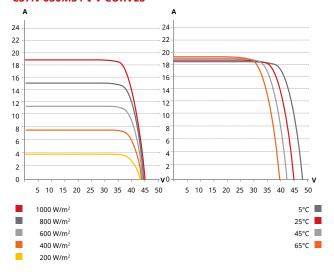
CSI Solar Co., Ltd. is committed to providing high quality solar products, solar system solutions and services to customers around the world. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey, and is a leading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

<sup>\*</sup> For detailed information, please refer to the Installation Manual.

## **ENGINEERING DRAWING (mm)**



## CS7N-650MS / I-V CURVES



## **ELECTRICAL DATA | STC\***

640MS	645MS	650MS	655MS	660MS	665MS	670MS
640 W	645 W	650 W	655 W	660 W	665 W	670 W
)37.5 V	37.7 V	37.9 V	38.1 V	38.3 V	38.5 V	38.7 V
17.07 <i>A</i>	17.11 A	17.16 A	17.20 <i>A</i>	17.24 <i>A</i>	17.28 A	17.32 A
44.6 V	44.8 V	45.0 V	45.2 V	45.4 V	45.6 V	45.8 V
18.31 <i>A</i>	18.35 A	18.39 A	18.43 <i>A</i>	18.47 <i>A</i>	18.51 A	18.55 A
20.6%	20.8%	20.9%	21.1%	21.2%	21.4%	21.6%
-40°C ~	+85°C					
1500V	(IEC/UL)	) or 100	OV (IEC	/UL))		
TYPE 1 or CLA	(UL 617 SS C (IE0	30 1500 2 61730	)V) or T\ )	/PE 2 (U	L 61730	1000V)
30 A						
Class A						
0 ~ + 5	W					
	640 W )37.5 V 17.07 A 44.6 V 18.31 A 20.6% -40°C ~ 1500V TYPE 1 or CLA: 30 A Class A	640 W 645 W )37.5 V 37.7 V 17.07 A17.11 A 44.6 V 44.8 V 18.31 A18.35 A 20.6% 20.8% -40°C ~ +85°C 1500V (IEC/UL) TYPE 1 (UL 617 or CLASS C (IEC	640 W 645 W 650 W )37.5 V 37.7 V 37.9 V 17.07 A17.11 A17.16 A 44.6 V 44.8 V 45.0 V 18.31 A18.35 A18.39 A 20.6% 20.8% 20.9% -40°C ~ +85°C 1500V (IEC/UL)) or 100 TYPE 1 (UL 61730 1500 or CLASS C (IEC 61730 30 A Class A	640 W 645 W 650 W 655 W )37.5 V 37.7 V 37.9 V 38.1 V 17.07 A17.11 A17.16 A17.20 A 44.6 V 44.8 V 45.0 V 45.2 V 18.31 A18.35 A18.39 A18.43 A 20.6% 20.8% 20.9% 21.1% -40°C ~ +85°C 1500V (IEC/UL)) or 1000V (IEC/UL) TYPE 1 (UL 61730 1500V) or TYOT CLASS C (IEC 61730) 30 A Class A	640 W 645 W 650 W 655 W 660 W (37.5 V 37.7 V 37.9 V 38.1 V 38.3 V 17.07 A17.11 A17.16 A17.20 A17.24 A 44.6 V 44.8 V 45.0 V 45.2 V 45.4 V 18.31 A18.35 A18.39 A18.43 A18.47 A 20.6% 20.8% 20.9% 21.1% 21.2% -40°C ~ +85°C 1500V (IEC/UL)) TYPE 1 (UL 61730 1500V) or TYPE 2 (U or CLASS C (IEC 61730) 30 A Class A	1500V (IEC/UL)) or 1000V (IEC/UL))  TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 or CLASS C (IEC 61730)  30 A  Class A

<sup>\*</sup> 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).

## **ELECTRICAL DATA | NMOT\***

temperature 20°C, wind speed 1 m/s.

CS7N	640MS	645MS	650MS	655MS	660MS	665MS	670MS
Nominal Max. Power (Pmax)	480 W	484 W	487 W	491 W	495 W	499 W	502 W
Opt. Operating Voltage (Vmp	)35.2 V	35.3 V	35.5 V	35.7 V	35.9 V	36.1 V	36.3 V
Opt. Operating Current (Imp)	13.64 A	13.72 A	13.74 A	13.76 A	13.79 A	13.83 A	13.85 A
Open Circuit Voltage (Voc)	42.2 V	42.3 V	42.5 V	42.7 V	42.9 V	43.1 V	43.3 V
Short Circuit Current (Isc)	14.77 A	14.80 A	14.83 A	14.86 A	14.89 A	14.93 A	14.96 A
* Under Nominal Module Operating Te	mperature	(NMOT),	irradiance	of 800 W/	m², spectru	ım AM 1.5	, ambient

## **MECHANICAL DATA**

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	132 [2 x (11 x 6) ]
Dimensions	2384 × 1305 × 35 mm
Dimensions	(93.9 × 51.4 × 1.38 in)
Weight	34.4 kg (75.8 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy,
	crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm <sup>2</sup> (IEC), 10 AWG (UL)
Cable Length (Including Connector)	460 mm (18.1 in) (+) / 340 mm (13.4 in) (-) (supply additional jumper cable: 2 lines / Pallet) or customized length*
Connector	PV-KST4/xy-UR, PV-KBT4/xy-UR (IEC 1000 V) or T4-PC-1 (IEC 1500 V) or PV-KST4-EVO2/XY, PV-KBT4-EVO2/XY (IEC 1500 V)
Per Pallet	31 pieces
Per Container (40' HQ)	527 pieces
	1 10 11 01 1

<sup>\*</sup> 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**

 $<sup>\</sup>hbox{$^*$ 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.