NEW

CanadianSolar



HiKu

SUPER HIGH POWER POLY PERC MODULE

415 W ~ 435 W

CS3W-415|420|425|430|435P

MORE POWER

24 % more power than conventional modules

Up to 4.5 % lower LCOE
Up to 2.7 % lower system cost

Low NMOT: 42 ± 3 °C
Low temperature coefficient (Pmax): -0.37 % / °C

Better shading tolerance

MORE RELIABLE

Lower internal current, lower hot spot temperature

Cell crack risk limited in small region, enhance the module reliability

Heavy snow load up to 5400 Pa, wind load up to 3600 Pa*

25 years **linear power output warranty***

12 years **enhanced product warranty on materials and workmanship***

*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
OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE / MCS /INMETRO
UL 1703 / IEC 61215 performance: CEC listed (US)
UL 1703: CSA / IEC 61701 ED2: VDE / IEC 62716: VDE
Take-e-way

* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

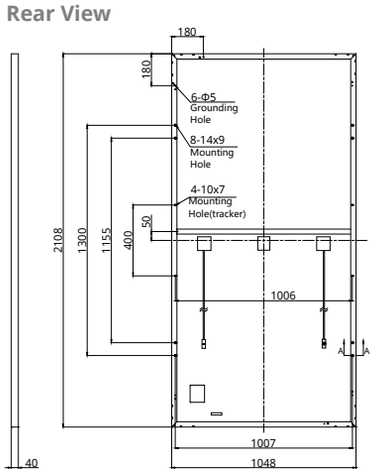
CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 36 GW deployed around the world since 2001.

* For detail information, please refer to Installation Manual.

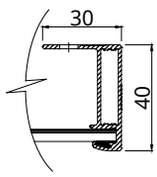
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ENGINEERING DRAWING (mm)

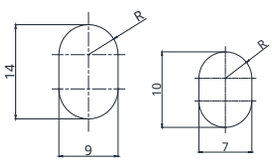
Rear View



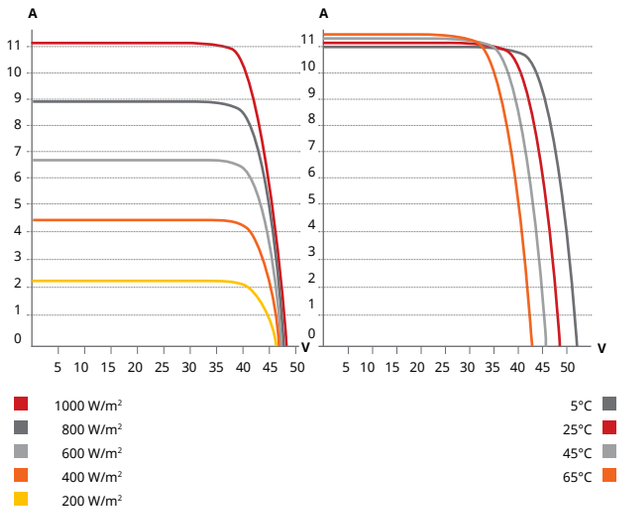
Frame Cross Section A-A



Mounting Hole



CS3W-420P / I-V CURVES



ELECTRICAL DATA | STC*

CS3W	415P	420P	425P	430P	435P
Nominal Max. Power (Pmax)	415 W	420 W	425 W	430 W	435 W
Opt. Operating Voltage (Vmp)	39.3 V	39.5 V	39.7 V	39.9 V	40.1 V
Opt. Operating Current (Imp)	10.56 A	10.64 A	10.71 A	10.78 A	10.85 A
Open Circuit Voltage (Voc)	47.8 V	48.0 V	48.2 V	48.4 V	48.6 V
Short Circuit Current (Isc)	11.14 A	11.26 A	11.29 A	11.32 A	11.35 A
Module Efficiency	18.79%	19.01%	19.24%	19.46%	19.69%
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	20 A				
Application Classification	Class A				
Power Tolerance	0 ~ + 5 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*

CS3W	415P	420P	425P	430P	435P
Nominal Max. Power (Pmax)	308 W	312 W	316 W	320 W	323 W
Opt. Operating Voltage (Vmp)	36.5 V	36.7 V	36.9 V	37.1 V	37.3 V
Opt. Operating Current (Imp)	8.45 A	8.51 A	8.57 A	8.62 A	8.68 A
Open Circuit Voltage (Voc)	44.8 V	45.0 V	45.2 V	45.4 V	45.6 V
Short Circuit Current (Isc)	8.99 A	9.08 A	9.11 A	9.13 A	9.16 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	Poly-crystalline
Cell Arrangement	144 [2 X (12 X 6)]
Dimensions	2108 X 1048 X 40 mm (83.0 X 41.3 X 1.57 in)
Weight	24.9 kg (54.9 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy, crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 500 mm (19.7 in) (+) / 350 mm (13.8 in) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)*
Connector	T4 series or H4 UTX or MC4-EVO2
Per Pallet	27 pieces
Per Container (40' HQ)	594 pieces

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

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	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.
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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Product Measurements 4/9

Pallets

Type	Family	Modules / Pallet	Dimensions Empty			Dimensions Loaded			Gross Weight	Frame
		Pieces	L	W	H	L	W	H	KG	
CS3K-P	KuPower	27	1710	1130	140	1710	1130	1150	540	F9
CS3K-MS	KuPower	27	1710	1130	140	1710	1130	1150	540	F9
CS3K-P	KuPower	30	1710	1100	140	1710	1100	1150	595	F16
CS3K-MS	KuPower	30	1710	1100	140	1710	1100	1150	595	F16
CS3K-PB-AG	BiKu	35	1770	1140	144	1770	1140	1150	819	F26/27
CS3K-MB-AG	BiKu	35	1770	1140	144	1770	1140	1150	819	F26/27
CS3K-PB-AG	BiKu	33	1770	1140	144	1770	1140	1150	782	F26
CS3K-MB-AG	BiKu	33	1770	1140	144	1770	1140	1150	782	F26
CS3K-P-AG	KuDymond	30	1750	1130	144	1750	1130	1150	723	F14
CS3K-MS-AG	KuDymond	30	1750	1130	144	1750	1130	1150	723	F14
CS3L-P	HiKu	27	1805	1130	140	1805	1130	1205	600	F9
CS3L-MS	HiKu	27	1805	1130	140	1805	1130	1205	600	F9
CS3L-P	HiKu	27	1805	1130	140	1805	1130	1205	614	F9H
CS3L-MS	HiKu	27	1805	1130	140	1805	1130	1205	614	F9H
CS3L	HiKu	30	1805	1100	140	1805	1100	1205	658	F30
CS3L	HiKu	30	1805	1100	140	1805	1100	1205	673	F30E
CS3N	HiKu	30	1985	1100	140	1985	1100	1205	723	F30
CS1H-MS	HiDM	30	1745	1100	140	1745	1100	1150	616	F16
CS1U	HiDM	30	2125	1100	140	2125	1100	1150	749	F16
CS3U-P	KuMax	27	2045	1130	140	2045	1130	1150	657	F9
CS3U-MS	KuMax	27	2045	1130	140	2045	1130	1150	657	F9
CS3U-P	KuMax	30	2045	1100	140	2045	1100	1150	721	F16
CS3U-MS	KuMax	30	2045	1100	140	2045	1100	1150	721	F16
CS3U-PB-AG	BiKu	35	2100	1140	144	2100	1140	1150	954	F26/27
CS3U-MB-AG	BiKu	35	2100	1140	144	2100	1140	1150	954	F26/27
CS3U-PB-AG	BiKu	33	2100	1140	144	2100	1140	1150	908	F26
CS3U-MB-AG	BiKu	33	2100	1140	144	2100	1140	1150	908	F26
CS3U-P-AG	KuDymond	30	2075	1130	140	2075	1130	1150	850	F14
CS3U-MS-AG	KuDymond	30	2075	1130	140	2075	1130	1150	850	F14
CS3S	Ku5	30	2215	1100	140	2215	1100	1150	762	F50
CS3W-P	HiKu	27	2155	1130	140	2155	1130	1205	725	F9
CS3W-MS	HiKu	27	2155	1130	140	2155	1130	1205	725	F9
CS3W-MB-AG	BiHiKu	35	2200	1140	144	2200	1140	1205	1044	F26/27
CS3W-PB-AG	BiHiKu	35	2200	1140	144	2200	1140	1205	1044	F26/27
CS3W-MB-AG	BiHiKu	33	2200	1140	144	2200	1140	1205	995	F26
CS3W-PB-AG	BiHiKu	33	2200	1140	144	2200	1140	1205	995	F26
CS3W	HiKu	30	2155	1100	140	2155	1100	1205	782	F30
CS3W	HiKu	30	2155	1100	140	2155	1100	1205	797	F30E
CS3Y	HiKu5	30	2295	1100	140	2295	1100	1205	822	F50
CS3Y-M/PB-AG	BiHiKu	30	2335	1130	144	2335	1130	1205	1045	F41
CS6W	HiKu6	30	2305	1100	105	2305	1100	1250	887	F50A
CS6W-B-AG	BiHiKu6	30	2335	1130	105	2335	1130	1250	1025	F42
CS7N-MS	HiKu7	31	1305	1100	105	1340	1135	2500	1114	F52
CS7N-MB-AG	BiHiKu7	31	1305	1100	105	1340	1135	2500	1223	F43
CS7L-MS	HiKu7	31	1305	1100	105	1340	1135	2282	1021	F52
CS7L-MB-AG	BiHiKu7	31	1305	1100	105	1340	1135	2282	1121	F43