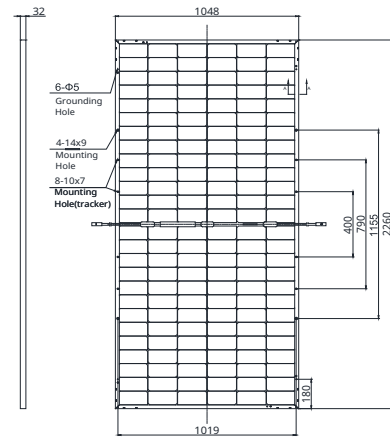
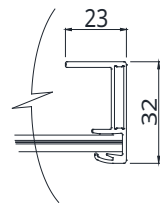


ENGINEERING DRAWING (mm)

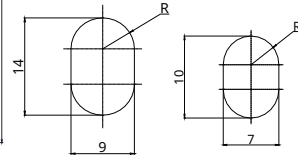
Rear View



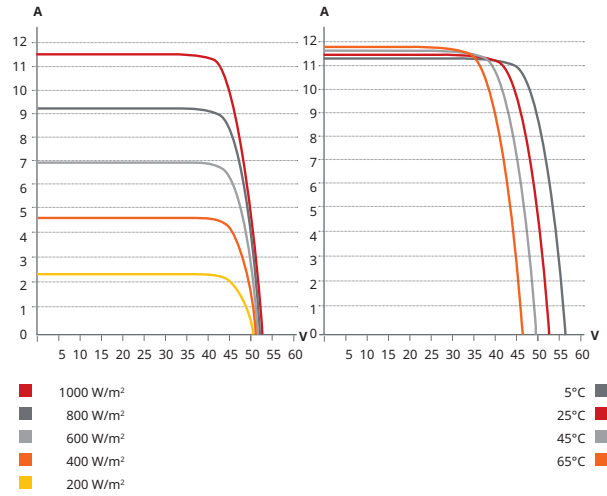
Frame Cross Section A-A



Mounting Hole



CS3Y-480MB-AG / I-V CURVES



ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS3Y-465MB-AG	348 W	40.6 V	8.58 A	49.2 V	9.21 A	
CS3Y-470MB-AG	352 W	40.8 V	8.63 A	49.4 V	9.25 A	
CS3Y-475MB-AG	356 W	41.0 V	8.69 A	49.5 V	9.29 A	
CS3Y-480MB-AG	359 W	41.2 V	8.73 A	49.7 V	9.33 A	
CS3Y-485MB-AG	363 W	41.4 V	8.78 A	49.9 V	9.37 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	156 [2X (13 X6)]
Dimensions	2260 X 1048 X 32 mm (89.0 X 41.3 X 1.26 in)
Weight	29.9 kg (65.9 lbs)
Front / Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 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) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1850 mm (72.8 in)*
Connector	T4 series or MC4
Per Pallet	33 pieces
Per Container (40' HQ)	660 pieces

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

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.35 % / °C
Temperature Coefficient (Voc)	-0.27 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



ELECTRICAL DATA | STC*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS3Y-465MB-AG	465 W	43.4 V	10.72 A	52.1 V	11.42 A	19.6%
Bifacial Gain**	5% 488 W	43.4 V	11.26 A	52.1 V	11.99 A	20.6%
	10% 512 W	43.4 V	11.8 A	52.1 V	12.56 A	21.6%
	20% 558 W	43.4 V	12.86 A	52.1 V	13.7 A	23.6%
	30% 605 W	43.4 V	13.95 A	52.1 V	14.85 A	25.5%
CS3Y-470MB-AG	470 W	43.6 V	10.78 A	52.3 V	11.47 A	19.8%
Bifacial Gain**	5% 494 W	43.6 V	11.34 A	52.3 V	12.04 A	20.9%
	10% 517 W	43.6 V	11.86 A	52.3 V	12.62 A	21.8%
	20% 564 W	43.6 V	12.94 A	52.3 V	13.76 A	23.8%
	30% 611 W	43.6 V	14.01 A	52.3 V	14.91 A	25.8%
CS3Y-475MB-AG	475 W	43.8 V	10.85 A	52.5 V	11.52 A	20.1%
Bifacial Gain**	5% 499 W	43.8 V	11.40 A	52.5 V	12.10 A	21.1%
	10% 523 W	43.8 V	11.95 A	52.5 V	12.67 A	22.1%
	20% 570 W	43.8 V	13.02 A	52.5 V	13.82 A	24.1%
	30% 618 W	43.8 V	14.12 A	52.5 V	14.98 A	26.1%
CS3Y-480MB-AG	480 W	44.0 V	10.91 A	52.7 V	11.57 A	20.3%
Bifacial Gain**	5% 504 W	44.0 V	11.46 A	52.7 V	12.15 A	21.3%
	10% 528 W	44.0 V	12.00 A	52.7 V	12.73 A	22.3%
	20% 576 W	44.0 V	13.09 A	52.7 V	13.88 A	24.3%
	30% 624 W	44.0 V	14.18 A	52.7 V	15.04 A	26.3%
CS3Y-485MB-AG	485 W	44.2 V	10.98 A	52.9 V	11.62 A	20.5%
Bifacial Gain**	5% 509 W	44.2 V	11.53 A	52.9 V	12.2 A	21.5%
	10% 534 W	44.2 V	12.09 A	52.9 V	12.78 A	22.5%
	20% 582 W	44.2 V	13.18 A	52.9 V	13.94 A	24.6%
	30% 631 W	44.2 V	14.28 A	52.9 V	15.11 A	26.6%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Module Fire Performance	TYPE 3 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	25 A
Application Classification	Class A
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	70 %

* Power Bifaciality = $P_{max_{rear}} / P_{max_{front}}$, both $P_{max_{rear}}$ and $P_{max_{front}}$ are tested under STC, Bifaciality Tolerance: ± 5 %

* 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.