

PERC

5 BUSBAR CELLS

380-420

POWER OUTPUT

19%-22.0%

MAXIMUM EFFICIENCY

+/-3 %
POWER TOLERANCE

10/25 Year

PRODUCT/PERFORMANCE WARRANTY





CROSSROADS 380-420

High quality bi-facial panel designed for commercial and residential installations.



Crossroads Solar manufactures solar panels in **South Bend, IN**



Our core mission is to provide **jobs** and life training opportunities for recently released felons



We make solar panels because it is **good for the planet**



We help remake people because it is **good for our communities**

Our panels are American made with automated equipment, from top quality components, and certified to UL 61730 & IEC 61215 standards.

They come with a 10 year product and a 25 year performance warranty, consistent with industry standards.

25 YEAR PERFORMANCE WARRANTY

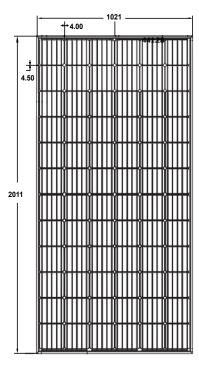


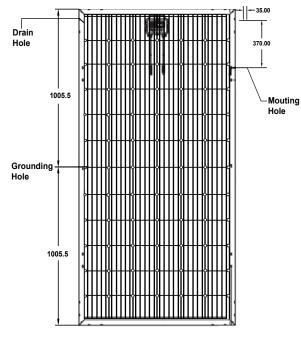
Electrical Performance

	Front Side Performance (CR380-420)	Bifacial performance @10% Irradience (Rear Side)**	Bifacial performance @20% Irradience Rear Side**
Max Power*P _{max}	380	418	456
Short Circuit Current Isc*	9.90	10.89	11.88
Open Circuit Voltage Voc*	49.00	49.00	49.00
atede CurrentP _{max} Imp	9.35	10.28	11.22
Rated Voltage at P max Vmp	40.55	40.55	40.55
Module Efficiency	19%	20.40%	22%
	Front side Module Efficiency based on 1000w/m² irradiance	Rear side Module Efficiency based on 1000 w/m² irradiance and 200W/m² irridiance	

^{*} Measurement Tolerences: Pmax+/3%; Isc +/-5%; Voc +/-5%

PANEL DRAWING Units: mm





Front View

400 kg

Pallet Weight

Number of Palletes per Container

Back View

Thermal Characteristics		Operating Conditions		Construction Materials		
Normal Operating Cell			Maximum System Voltage	1500Vdc	Front Glass	3.2mm(tempered,low iron, ARC)
Temperature (NOCT)	45±2	oc	Operating Temp Range	-40°C(-40°F) to 85°C(185°F)	Frame	Anodized Aluminum
Temperature Coefficient of Pmax	-0.38	%/K	Maximum Fuse Rating	20	Encapsulant	EVA
Temperature Coefficient of Voc	-0.36	%/K	Fire Safety Classification	Type 1(US) Class C(Canada)	Junction Box	IP 67
Temperature Coefficient of Isc	0.068	%/K	Hail Safety Impact Velocity	25mm at 23m/s	Cables	1 meter
			Fuse Rating	20 A	Connector	MC4
Packaging Information General		General Char	acteristics	Qualificat	ion & Certification	
Number of Modules per Pallet	26		Solar Cells G1, N	Mono Crystalline Silicon	Ul/IEC	61730 & 61215
Pallet Dimensions 2058m x 1118mx1145mm (81in x 44in x 45in)			n) 158.75mm	x 158.75mm x ±0.25mm	Listed CEC -	CA Energy Commission

Cell Orientation

(LxWxH)

Weight

Module Dimensions

72 Cells (6x12)

2011mm x 1021mm x 44mm

79.17in x 40.20in x 1.575in

22 kg (48.5lb)

^{**}Our assumptions based on a 10-20% gain from the rear side irradiance. This will vary with installation and orientation