



XS158B5

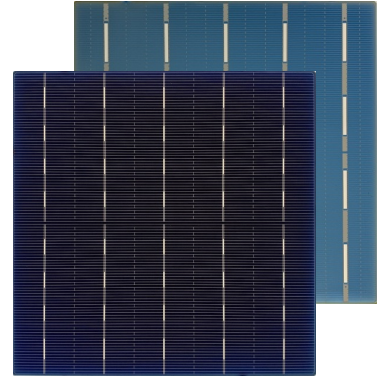
Monocrystalline X-Cells

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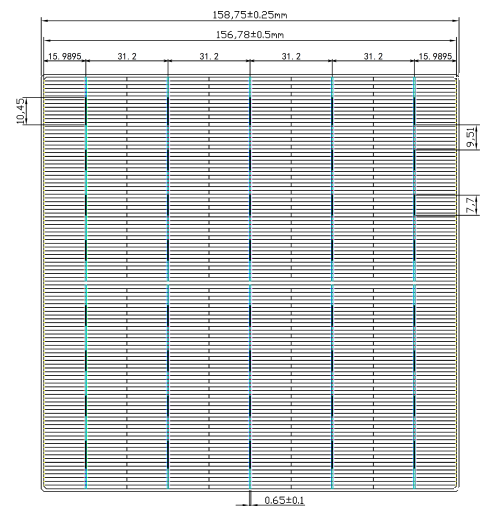
Bifacial Solar Cell - Orion 2.5C

Dimension	158.75mm x 158.75mm \pm 0.25mm
Thickness(Si)	180 +20/-30 μ m
Front	Anisotropically texturized surface and dark silicon nitride anti-reflection coatings 0.65 \pm 0.1mm silver busbars
Back	Local aluminum back-surface field 1.7 \pm 0.1mm (silver / aluminum) discontinuous soldering pads



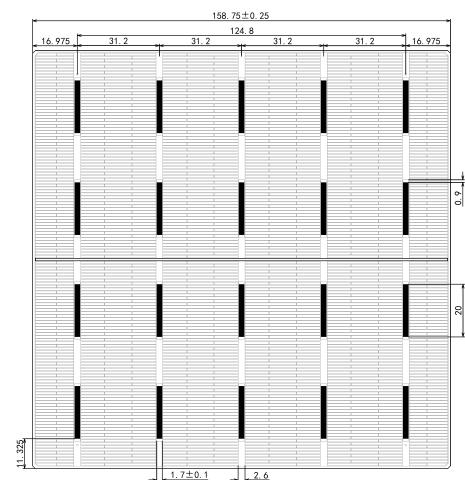
Features

- > High conversion efficiencies resulting in superior power output performance
- > Outstanding power output even in low light or high temperature conditions
- > Optimized design for ease of soldering and lamination
- > Long-term stability, reliability and performance
- > Low breakage rate
- > Uniform Color



Production and Quality Control

- > Precision cell efficiency sorting procedures
- > Stringent criteria for color uniformity and appearance
- > Reverse current and shunt resistance screening
- > ISO 9001, ISO 14001, and ISO 45001 certificated
- > Calibrated against Fraunhofer ISE



* See the reverse side for more detail

Electrical Performance

Efficiency Code		228	227	226	225	224	223
Efficiency	Eff (%)	22.80	22.70	22.60	22.50	22.40	22.30
Power	P _{pm} (W)	5.75	5.72	5.69	5.67	5.64	5.62
Max. Power Current	I _{pm} (A)	9.78	9.76	9.74	9.72	9.70	9.69
Short Circuit Current	I _{sc} (A)	10.27	10.26	10.24	10.23	10.22	10.21
Max. Power Voltage	V _{pm} (V)	0.588	0.586	0.584	0.583	0.581	0.580
Open Circuit Voltage	V _{oc} (V)	0.688	0.687	0.685	0.684	0.683	0.682

Efficiency Code		222	221	220	219	218	217
Efficiency	Eff (%)	22.20	22.10	22.00	21.90	21.80	21.70
Power	P _{pm} (W)	5.59	5.57	5.54	5.52	5.49	5.47
Max. Power Current	I _{pm} (A)	9.67	9.66	9.64	9.63	9.60	9.59
Short Circuit Current	I _{sc} (A)	10.20	10.20	10.18	10.16	10.15	10.14
Max. Power Voltage	V _{pm} (V)	0.578	0.577	0.575	0.573	0.572	0.570
Open Circuit Voltage	V _{oc} (V)	0.681	0.681	0.679	0.677	0.675	0.674

Standard test condition : AM1.5, 1000W/m², 25°C.

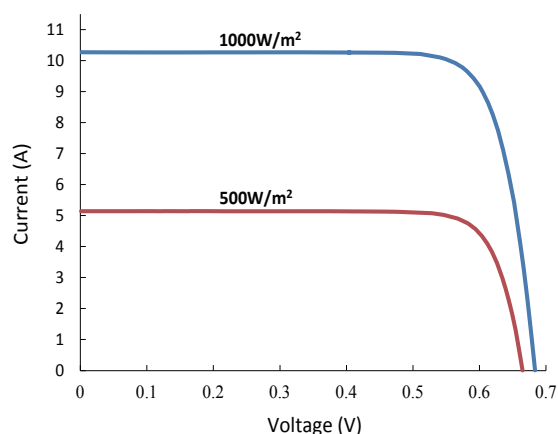
Average accuracy of all tested figures is ±1.5% rel.

Temperature Coefficients

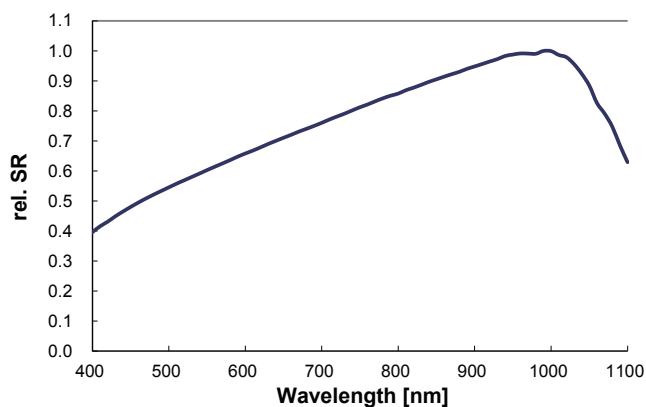
Current Temperature Coefficient	0.04%/°C
Voltage Temperature Coefficient	-0.29%/°C
Power Temperature Coefficient	-0.39%/°C

Standard test condition : AM1.5, 1000W/m², 25°C.

IV Curve



Spectral Response(SR)



Specifications subject to change without prior notice.
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