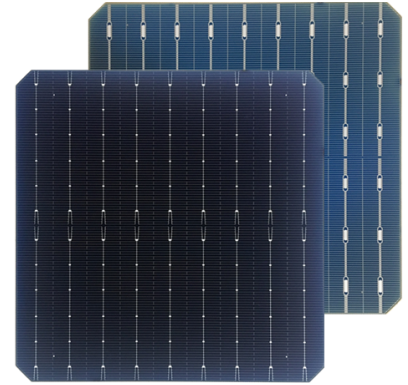


# XS166B9

Monocrystalline X-Cells

Bifacial Solar Cell - Orion 2.9A



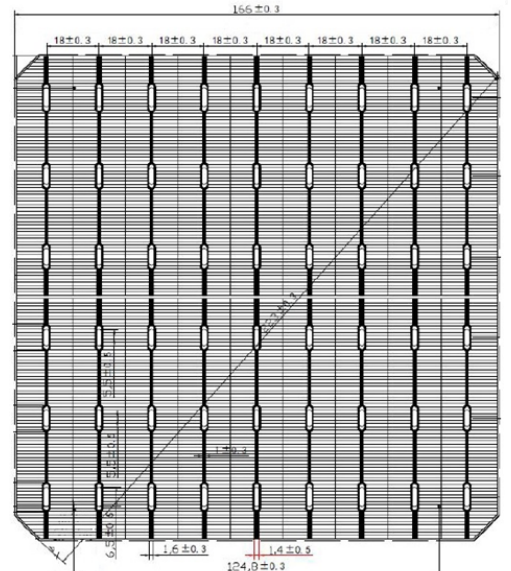
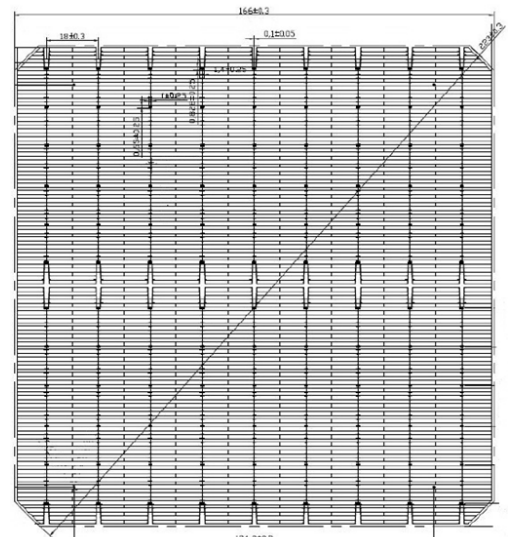
<b>Dimension</b>	166mm x 166mm ± 0.3mm
<b>Thickness(Si)</b>	175 +20/-30 μm
<b>Front</b>	Anisotropically texturized surface and dark silicon nitride anti-reflection coatings 0.1±0.05mm silver busbars
<b>Back</b>	Local aluminum back-surface field 1.4±0.5mm (silver / aluminum) discontinuous soldering pads

## ► 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
<b>Efficiency</b>	Eff (%)	22.80	22.70	22.60	22.50	22.40	22.30
<b>Power</b>	P <sub>pm</sub> (W)	6.25	6.22	6.20	6.17	6.14	6.11
<b>Max. Power Current</b>	I <sub>pm</sub> (A)	10.67	10.65	10.64	10.62	10.60	10.58
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	11.20	11.19	11.17	11.16	11.14	11.13
<b>Max. Power Voltage</b>	V <sub>pm</sub> (V)	0.586	0.584	0.583	0.581	0.580	0.578
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	0.687	0.686	0.685	0.684	0.682	0.681

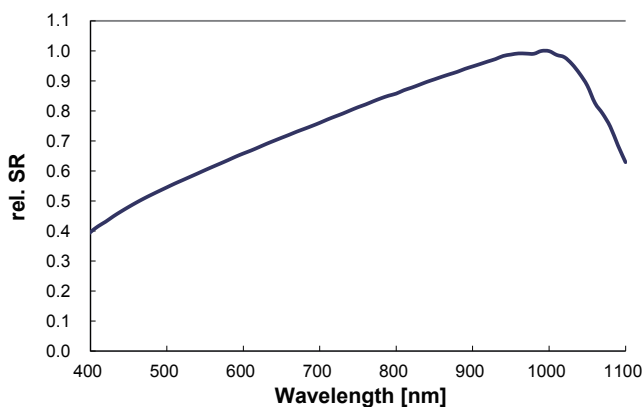
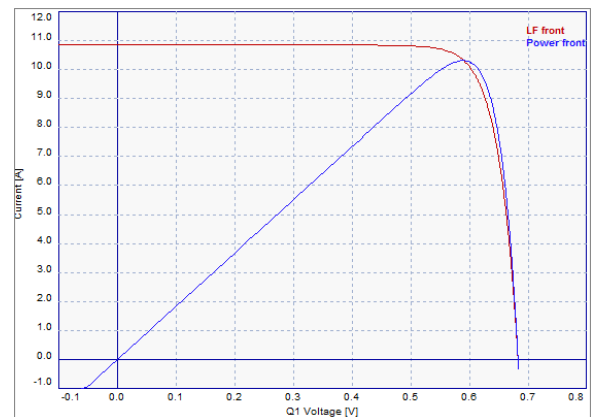
Efficiency Code		222	221	220	219	218	217
<b>Efficiency</b>	Eff (%)	22.20	22.10	22.00	21.90	21.80	21.70
<b>Power</b>	P <sub>pm</sub> (W)	6.09	6.06	6.03	6.00	5.98	5.95
<b>Max. Power Current</b>	I <sub>pm</sub> (A)	10.56	10.54	10.53	10.50	10.49	10.47
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	11.12	11.10	11.09	11.07	11.06	11.04
<b>Max. Power Voltage</b>	V <sub>pm</sub> (V)	0.576	0.575	0.573	0.572	0.570	0.568
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	0.679	0.679	0.678	0.677	0.675	0.674

Standard test condition : AM1.5, 1000W/m<sup>2</sup>, 25°C. Average accuracy of all tested figures is ±1.5% rel.

**Temperature Coefficients**

<b>Current Temperature Coefficient</b>	0.07%/°C
<b>Voltage Temperature Coefficient</b>	-0.36%/°C
<b>Power Temperature Coefficient</b>	-0.38%/°C

Standard test condition : AM1.5, 1000W/m<sup>2</sup>, 25°C.

**Spectral Response(SR)**

**IV Curve**


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