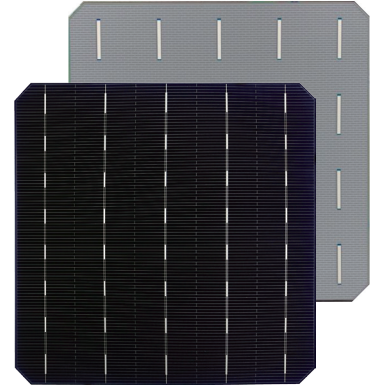


# XS156B5

## Monocrystalline X-Cells

<b>Dimension</b>	156.75mm x 156.75mm ± 0.25mm
<b>Diagonal</b>	210mm ± 0.25mm (Round chamfers)
<b>Thickness(Si)</b>	180 +20/-30 μm
<b>Front</b>	Anisotropically texturized surface and dark silicon nitride anti-reflection coatings 0.7 ± 0.1mm silver busbars
<b>Back</b>	Local aluminum back-surface field 1.7 ± 0.1mm (silver / aluminum) discontinuous soldering pads

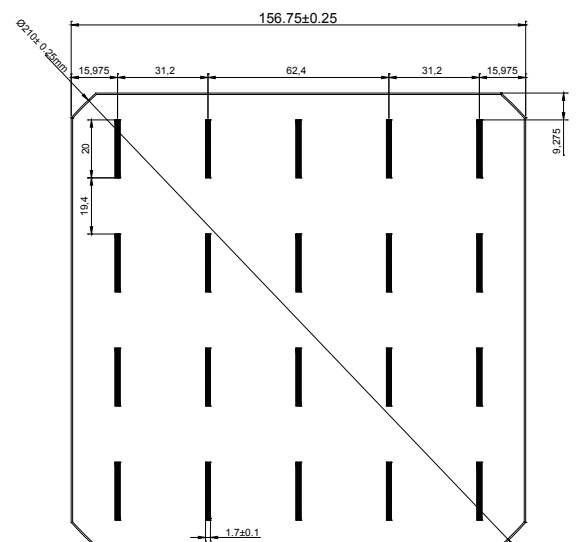
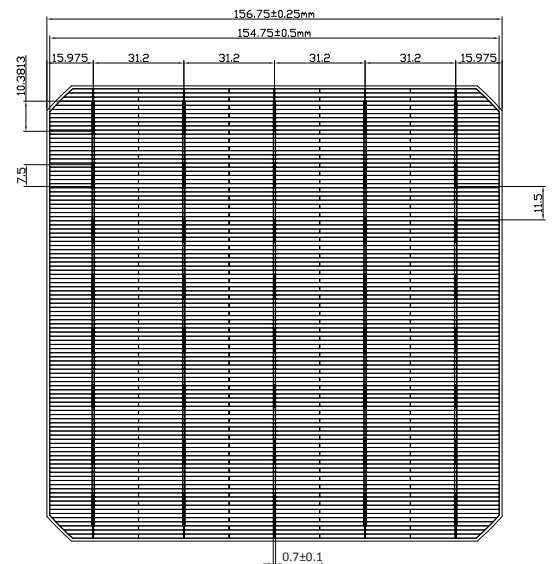


### ► Features

- > 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
- > ISO9001, ISO14001 and OHSAS 18001 certificated
- > Calibrated against Fraunhofer ISE



**Electrical Performance**

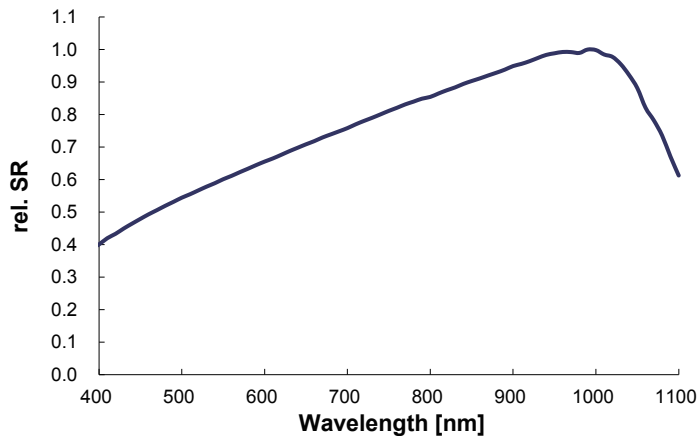
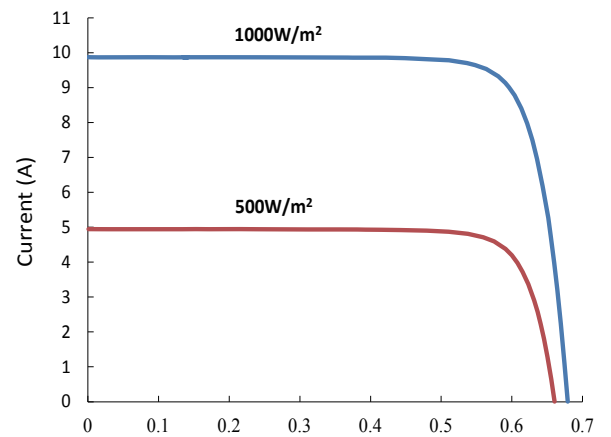
Efficiency Code		225	224	223	222	221	220	219
<b>Efficiency</b>	Eff (%)	22.50	22.40	22.30	22.20	22.10	22.00	21.90
<b>Power</b>	P <sub>pm</sub> (W)	5.50	5.47	5.45	5.42	5.40	5.38	5.35
<b>Max. Power Current</b>	I <sub>pm</sub> (A)	9.43	9.41	9.40	9.39	9.37	9.36	9.35
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	9.87	9.86	9.85	9.84	9.83	9.81	9.79
<b>Max. Power Voltage</b>	V <sub>pm</sub> (V)	0.583	0.581	0.580	0.577	0.576	0.575	0.572
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	0.683	0.682	0.681	0.680	0.679	0.677	0.675
Efficiency Code		218	217	216	215	214	213	212
<b>Efficiency</b>	Eff (%)	21.80	21.70	21.60	21.50	21.40	21.30	21.20
<b>Power</b>	P <sub>pm</sub> (W)	5.33	5.30	5.28	5.25	5.23	5.20	5.18
<b>Max. Power Current</b>	I <sub>pm</sub> (A)	9.33	9.32	9.31	9.29	9.28	9.27	9.25
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	9.79	9.78	9.77	9.76	9.74	9.73	9.72
<b>Max. Power Voltage</b>	V <sub>pm</sub> (V)	0.571	0.569	0.567	0.565	0.564	0.561	0.560
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	0.675	0.674	0.672	0.671	0.670	0.669	0.668

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>	$\alpha$ (I <sub>sc</sub> )	0.04%/°C
<b>Voltage Temperature Coefficient</b>	$\beta$ (V <sub>oc</sub> )	-0.28%/°C
<b>Power Temperature Coefficient</b>	$\gamma$ (P <sub>max</sub> )	-0.38%/°C

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

**Spectral Response(SR)**

**IV Curve**


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