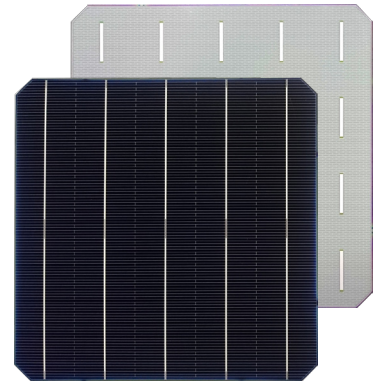


XS156B5

Monocrystalline X-Cells

Dimension	156.75mm x 156.75mm $\pm$ 0.25mm
Diagonal	210mm $\pm$ 0.25mm (Round chamfers)
Thickness(Si)	180 +20/-30 μ m
Front	Anisotropically texturized surface and dark silicon nitride anti-reflection coatings 0.7mm silver busbars
Back	Local aluminum back-surface field 1.7mm (silver / aluminum) discontinuous soldering pads

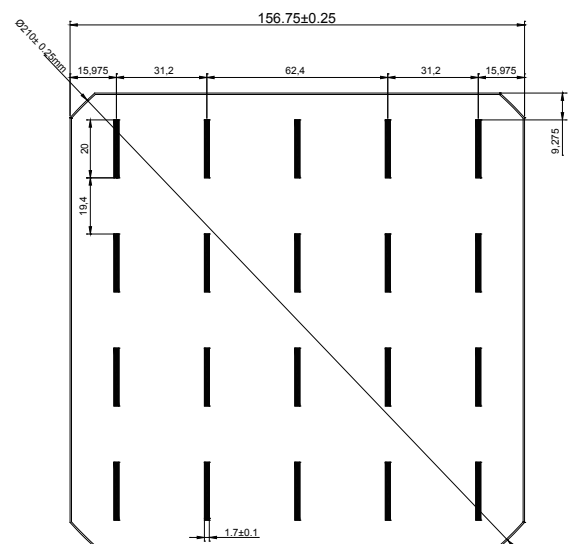
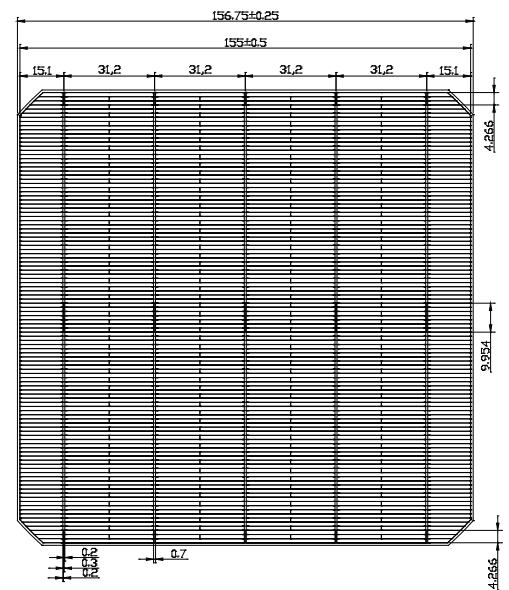


► Features

- > 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		221	220	219	218	217	216
Efficiency	Eff (%)	22.10	22.00	21.90	21.80	21.70	21.60
Power	P _{pm} (W)	5.40	5.38	5.35	5.33	5.30	5.28
Max. Power Current	I _{pm} (A)	9.40	9.39	9.37	9.35	9.33	9.31
Short Circuit Current	I _{sc} (A)	9.87	9.86	9.85	9.84	9.82	9.81
Max. Power Voltage	V _{pm} (V)	0.575	0.573	0.571	0.570	0.568	0.567
Open Circuit Voltage	V _{oc} (V)	0.671	0.670	0.668	0.667	0.666	0.665
Efficiency Code		215	214	213	212	210	
Efficiency	Eff (%)	21.50	21.40	21.30	21.20	21.00	
Power	P _{pm} (W)	5.25	5.23	5.20	5.18	5.13	
Max. Power Current	I _{pm} (A)	9.29	9.29	9.27	9.25	9.22	
Short Circuit Current	I _{sc} (A)	9.79	9.79	9.77	9.76	9.73	
Max. Power Voltage	V _{pm} (V)	0.565	0.563	0.561	0.560	0.556	
Open Circuit Voltage	V _{oc} (V)	0.663	0.661	0.659	0.658	0.656	

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

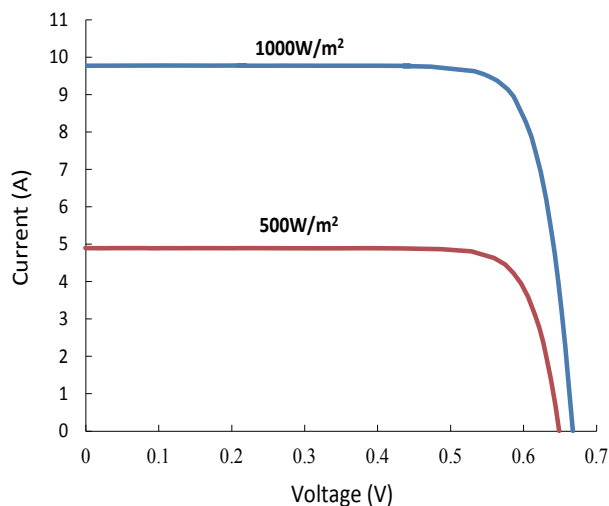
Average accuracy of all tested figures is ±1.5% rel.

Temperature Coefficients

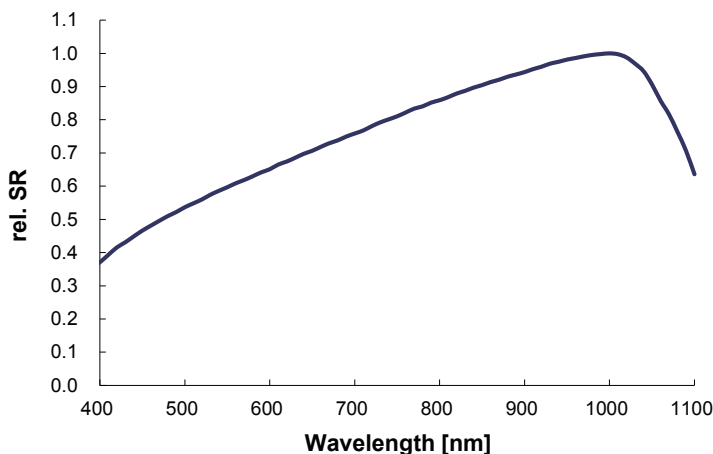
Current Temperature Coefficient	α (I _{sc})	0.04 %/°C
Voltage Temperature Coefficient	β (V _{oc})	-0.31 %/°C
Power Temperature Coefficient	γ (P _{max})	-0.41 %/°C

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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