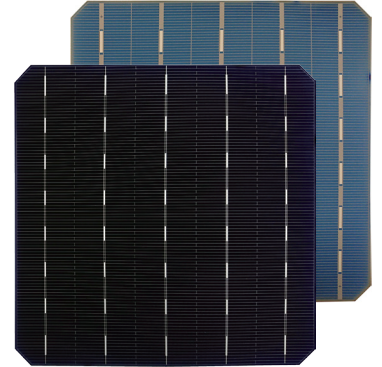


XS156B5

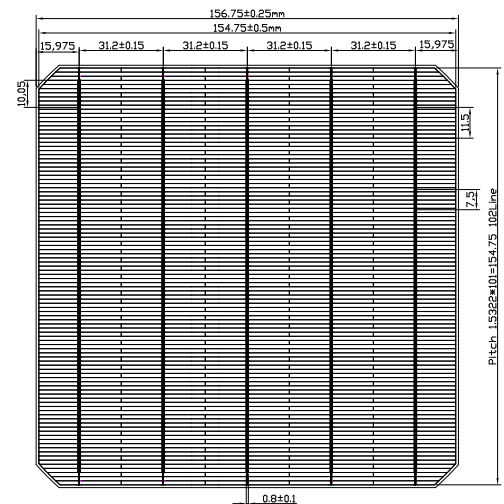
Monocrystalline X-Cells

Dimension	156.75mm x 156.75mm ± 0.25mm
Diagonal	210mm ± 0.25mm (Round chamfers)
Thickness(Si)	180 +20/-30 μm
Front	Anisotropically texturized surface and dark silicon nitride anti-reflection coatings 0.8± 0.1mm silver busbars
Back	Local aluminum back-surface field 1.4 ± 0.1mm (silver / aluminum) discontinuous soldering pads



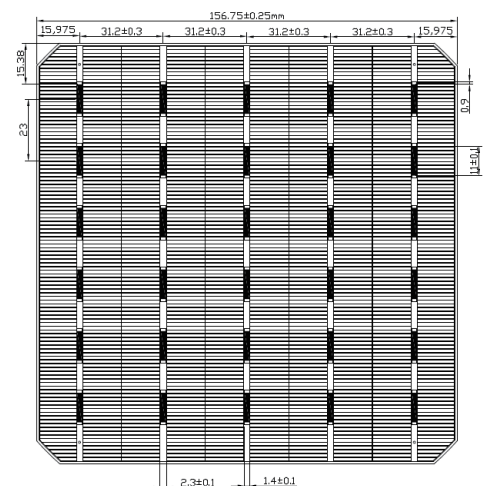
► Features

- > 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		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	9.38	9.35	9.33	9.32	9.29
Short Circuit Current	I _{sc} (A)	9.87	9.85	9.83	9.81	9.80	9.78
Max. Power Voltage	V _{pm} (V)	0.574	0.574	0.572	0.571	0.569	0.568
Open Circuit Voltage	V _{oc} (V)	0.677	0.677	0.675	0.675	0.673	0.672

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)	9.26	9.25	9.22	9.21	9.16
Short Circuit Current	I _{sc} (A)	9.76	9.74	9.73	9.71	9.67
Max. Power Voltage	V _{pm} (V)	0.567	0.565	0.564	0.562	0.560
Open Circuit Voltage	V _{oc} (V)	0.671	0.670	0.669	0.668	0.666

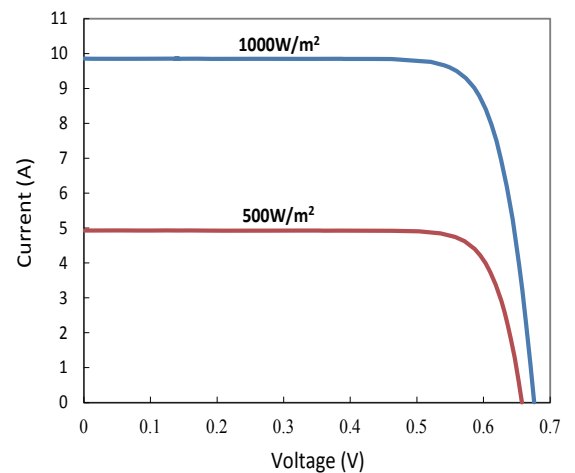
Standard test condition : AM1.5, 1000W/m², 25°C. Average accuracy of all tested figures is ±1.5% rel.

Temperature Coefficients

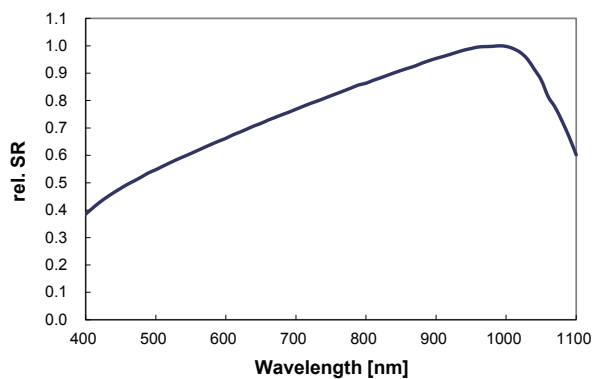
Current Temperature Coefficient	α (I _{sc})	0.04 %/°C
Voltage Temperature Coefficient	β (V _{oc})	-0.31 %/°C
Power Temperature Coefficient	γ (P _{max})	-0.41 %/°C

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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