

XS156B5-210R+

Monocrystalline X-Cells

Dimension	156.75mm x 156.75mm ± 0.25mm
Diagonal	210mm ± 0.5mm (Round chamfers)
Thickness(Si)	200µm ± 20µm
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

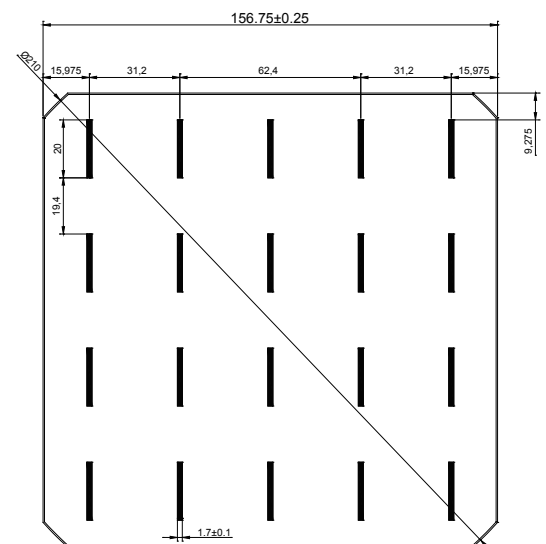
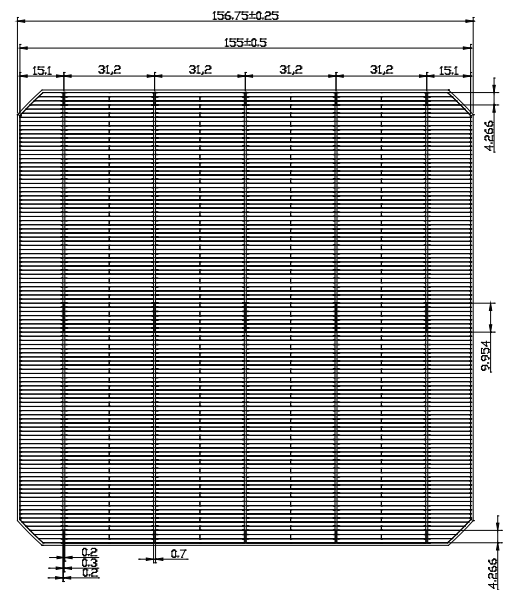


► Features

- > 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



* See the reverse side for more detail

Electrical Performance

Efficiency Code		216	215	214	213	212	211
Efficiency	Eff (%)	21.60	21.50	21.40	21.30	21.20	21.10
Power	P _{pm} (W)	5.28	5.25	5.23	5.20	5.18	5.16
Max. Power Current	I _{pm} (A)	9.29	9.26	9.24	9.22	9.20	9.19
Short Circuit Current	I _{sc} (A)	9.76	9.73	9.72	9.69	9.67	9.66
Max. Power Voltage	V _{pm} (V)	0.568	0.567	0.566	0.564	0.563	0.562
Open Circuit Voltage	V _{oc} (V)	0.667	0.666	0.665	0.664	0.663	0.662
Efficiency Code		210	209	208	206	204	202
Efficiency	Eff (%)	21.00	20.90	20.80	20.60	20.40	20.20
Power	P _{pm} (W)	5.13	5.11	5.08	5.03	4.98	4.94
Max. Power Current	I _{pm} (A)	9.16	9.14	9.12	9.07	9.03	8.99
Short Circuit Current	I _{sc} (A)	9.64	9.62	9.60	9.56	9.52	9.49
Max. Power Voltage	V _{pm} (V)	0.560	0.559	0.557	0.555	0.552	0.550
Open Circuit Voltage	V _{oc} (V)	0.661	0.660	0.658	0.656	0.654	0.652

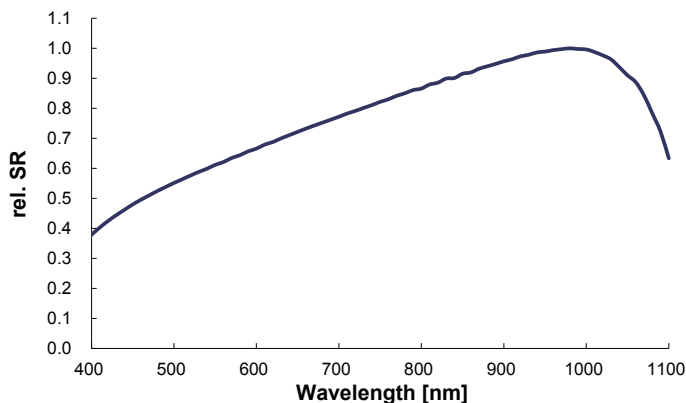
Standard test condition : AM1.5, 1000W/m², 25°C. Average accuracy of all tested figures is ±1.5% rel.

Temperature Coefficients

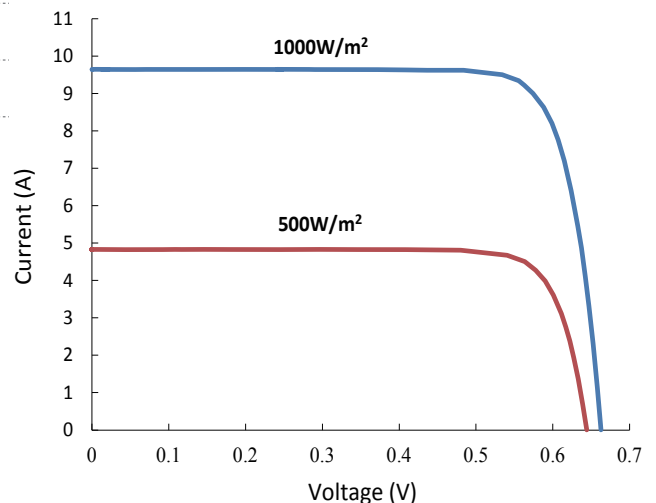
Current Temperature Coefficient	α (I _{sc})	0.04 %/°C
Voltage Temperature Coefficient	β (V _{oc})	-0.32 %/°C
Power Temperature Coefficient	γ (P _{max})	-0.42 %/°C

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

Spectral Response(SR)



IV Curve



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