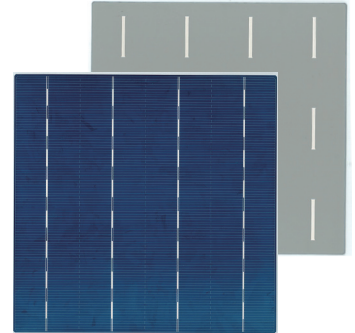


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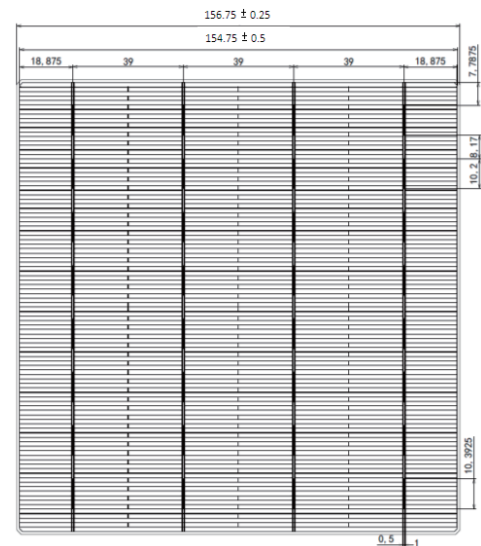
Multicrystalline I-Cells

Dimension	156.75mm x 156.75mm ± 0.25mm
Thickness(Si)	180µm ± 20µm, 200µm ± 20µm
Front	Blue silicon nitride anti-reflection coatings 1.0 mm hollow silver busbars
Back	Full-surface aluminum back-surface field 2.0 mm (silver / aluminum) discontinuous soldering pads



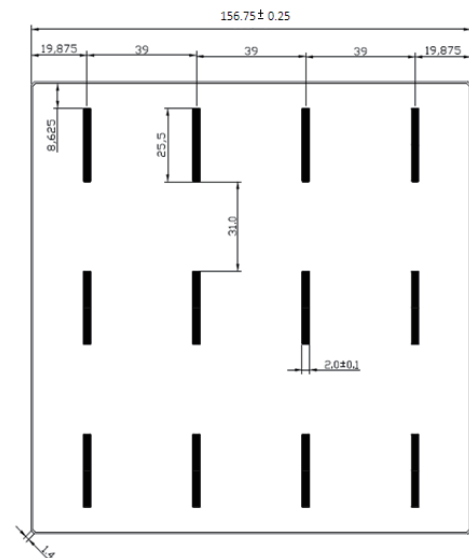
► Features

- > 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		190	188	186	184	183	182
Efficiency	Eff(%)	19.00	18.80	18.60	18.40	18.30	18.20
Power	Ppm(W)	4.67	4.62	4.57	4.52	4.50	4.47
Max. Power Current	Ipm(A)	8.54	8.49	8.45	8.40	8.38	8.36
Short Circuit Current	Isc(A)	8.99	8.96	8.92	8.89	8.87	8.85
Max. Power Voltage	Vpm(V)	0.547	0.554	0.541	0.538	0.537	0.535
Open Circuit Voltage	Voc(V)	0.645	0.643	0.640	0.638	0.637	0.635

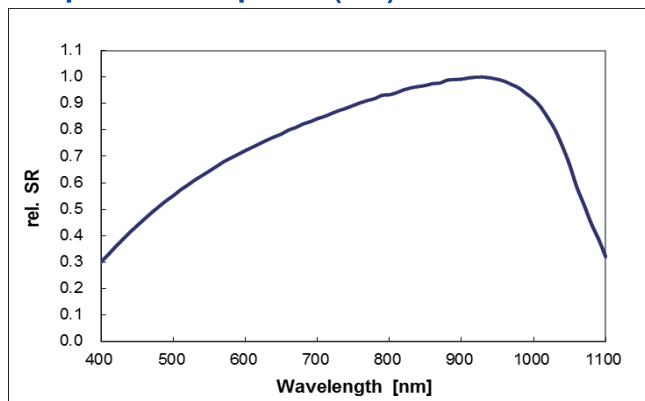
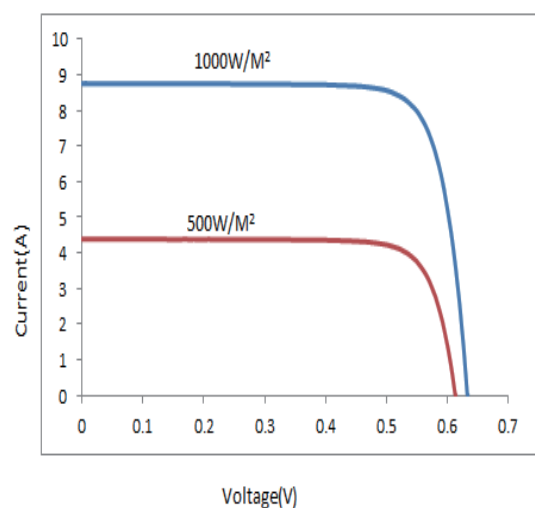
Efficiency Code		181	180	178	176	174	172
Efficiency	Eff(%)	18.10	18.00	17.80	17.60	17.40	17.20
Power	Ppm(W)	4.45	4.42	4.37	4.32	4.28	4.23
Max. Power Current	Ipm(A)	8.34	8.31	8.27	8.22	8.17	8.13
Short Circuit Current	Isc(A)	8.83	8.81	8.78	8.74	8.70	8.67
Max. Power Voltage	Vpm(V)	0.534	0.532	0.530	0.527	0.524	0.521
Open Circuit Voltage	Voc(V)	0.634	0.632	0.629	0.627	0.624	0.622

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

Temperature Coefficients

Current Temperature Coefficient	$\alpha(Isc)$	0.05%/°C
Voltage Temperature Coefficient	$\beta(Voc)$	-0.33%/°C
Power Temperature Coefficient	$\gamma(Pmax)$	-0.38%/°C

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

Spectral Response(SR)

IV Curve


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