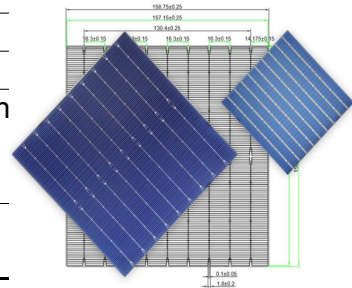


M156B9

Monocrystalline X-Cells

Dimension	158.75mm x 158.75mm ± 0.25mm
Diagonal	210mm ± 0.5mm (round chamfers)
Thickness(Si)	190µm ± 30µm
Front	9 * 0.1mm main grid lines (silver), 114 sub grid line blue anti-reflection film (Silicon Nitride)
Back	Back electrode width (Silver) 1.8mm, backside covered with aluminum back field

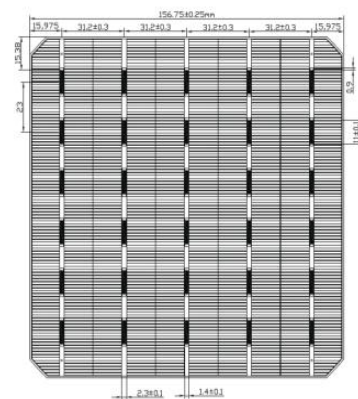
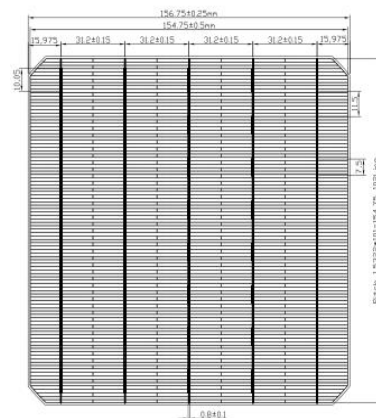


► Features

- > 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.

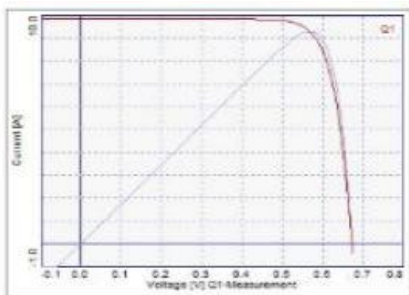
► Electrical Performance

Efficiency Code		22.2	22.1	22	21.9	21.8	21.7
Efficiency	Eff(%)	22.20	22.10	22.00	21.90	21.80	21.70
Power	Ppm(W)	5.59	5.57	5.54	5.52	5.49	5.47
Max. Power Current	Ipm(A)	9.78	9.76	9.74	9.73	9.71	9.70
Short Circuit Current	Isc(A)	10.32	10.31	10.29	10.28	10.27	10.25
Max. Power Voltage	Vpm(V)	0.578	0.577	0.576	0.574	0.573	0.570
Open Circuit Voltage	Voc(V)	0.682	0.681	0.680	0.679	0.677	0.675
Efficiency Code		21.6	21.5	21.4	21.3	21.1	
Efficiency	Eff(%)	21.60	21.50	21.40	21.30	21.10	
Power	Ppm(W)	5.44	5.42	5.39	5.37	5.32	
Max. Power Current	Ipm(A)	9.70	9.69	9.68	9.67	9.67	
Short Circuit Current	Isc(A)	10.24	10.24	10.22	10.21	10.21	
Max. Power Voltage	Vpm(V)	0.568	0.566	0.563	0.560	0.557	
Open Circuit Voltage	Voc(V)	0.673	0.672	0.668	0.665	0.662	

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

► Temperature Coefficients

Current Temperature Coefficient	$\alpha(I_{sc})$	0.06%/°C
Voltage Temperature Coefficient	$\beta(V_{oc})$	-0.36%/°C
Power Temperature Coefficient	$\gamma(P_{max})$	-0.36%/°C


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