



Solar cells

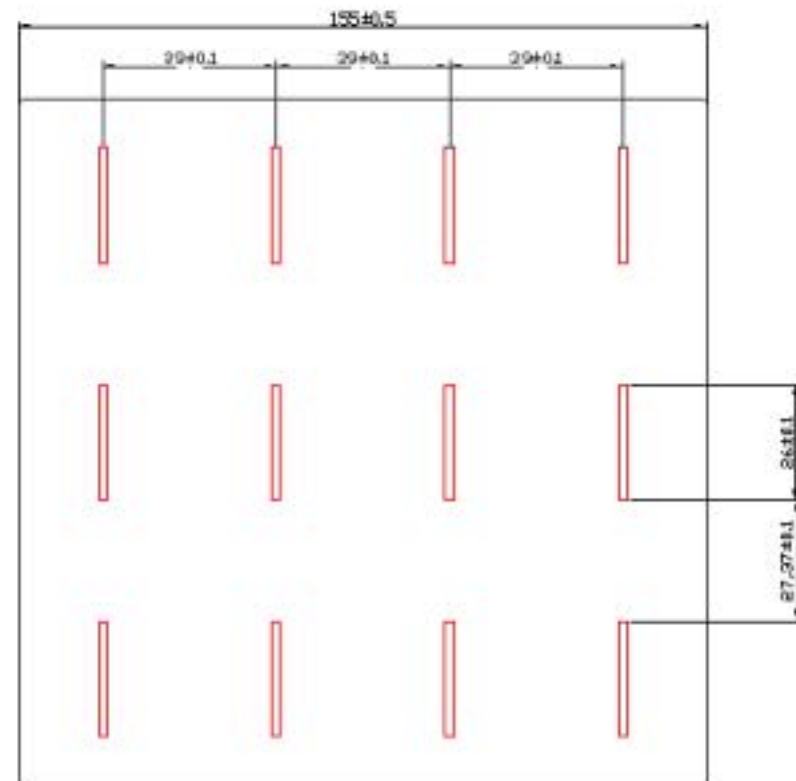
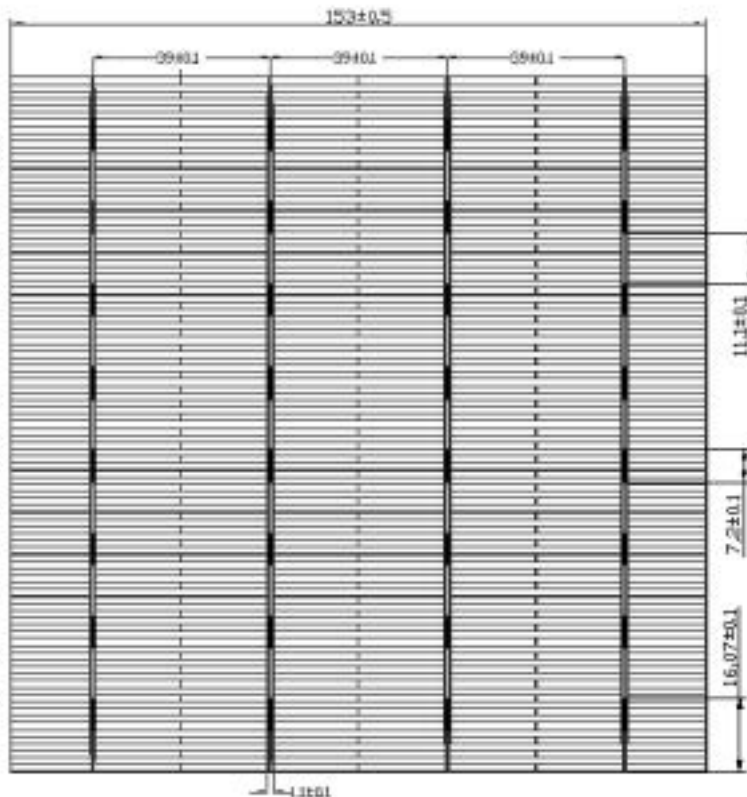
Poly 156 X 156 mm² 156 poly-crystalline solar cell

Mechanical Data and Design

Dimension	156mm X 156mm ± 0.5mm
Thickness (Wafer)	180 μm ± 20 μm
Front	Four 1.1mm <u>busbars</u> , alkaline textured surface, blue anti-reflection coating (silicon nitride)
Back	Four 2.0mm wide soldering pads, back surface field (aluminum)

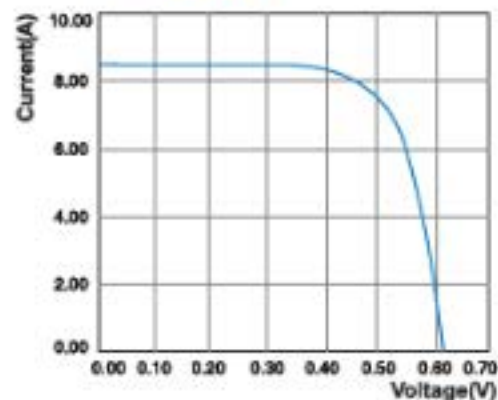
Temperature Coefficient

Voc.Temp.coeff. %/K	-0.336
Isc.temp.coeff. %/K	+0.043
Pm.temp.coeff. %/K	-0.410

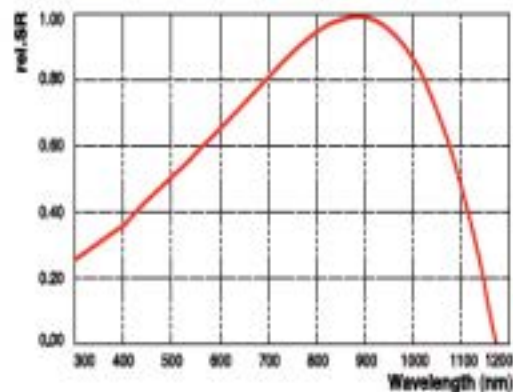


Class	Efficiency(%)	P_{mpp} (W)	U_{mpp} (V)	I_{mpp} (A)	U_{oc} (V)	I_{sc} (A)	FF (%)
7	18.40	4.48	0.537	8.38	0.637	8.89	79.61
6	18.20	4.43	0.535	8.32	0.635	8.82	79.47
5	18.00	4.38	0.532	8.25	0.632	8.76	79.26
4	17.80	4.33	0.526	8.23	0.628	8.75	78.85
3	17.60	4.28	0.523	8.20	0.625	8.73	78.62
2	17.40	4.23	0.520	8.17	0.624	8.71	78.29
3	17.20	4.18	0.518	8.11	0.621	8.63	78.56
2	17.00	4.13	0.516	8.04	0.618	8.57	78.39
1	16.80	4.08	0.514	7.99	0.615	8.54	78.19

IV Curve



Spectral Response



Intensity Dependence

Intensity (W/m^2)	I_{sc} (rel.)	V_{oc} (rel.)
1000	1.00	1.000
900	0.90	0.989
500	0.50	0.963
300	0.30	0.939
200	0.20	0.920