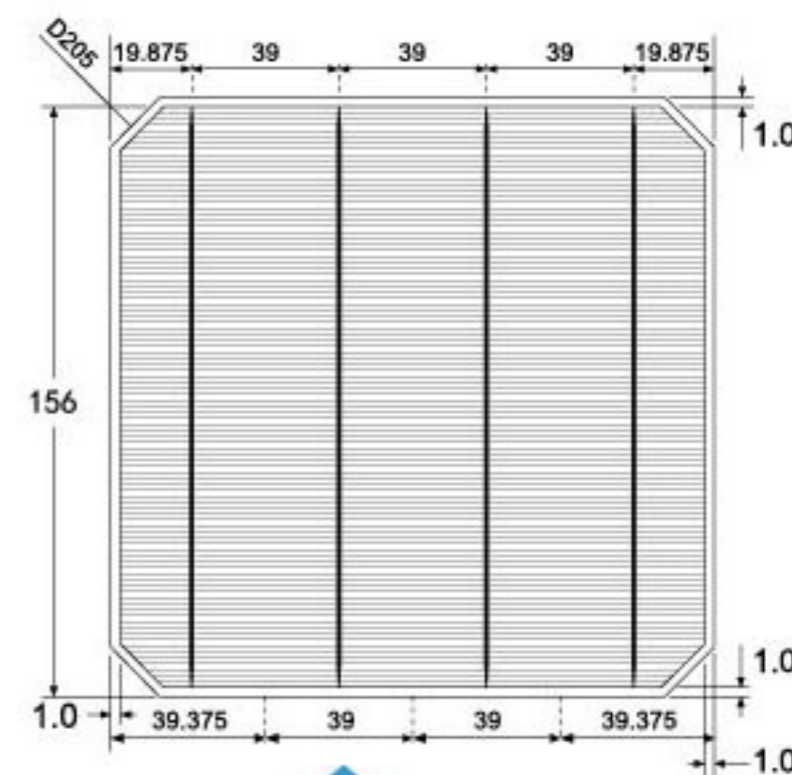




156mm Monocrystalline Silicon solar cells(4BB)

Physical Characteristics

Dimension	156 mm x 156 mm ± 0.5 mm
Diagonal	205 mm ± 0.25 mm
Thickness (si)	180 μm - 20 / + 30 μm 200 μm ± 30 μm
Front Side (-)	Silicon nitride anti-reflection coating 1.0 mm silver busbar
Back Side (+)	Full surface aluminum back surface field 2.1 mm (silver) discontinuous soldering pads

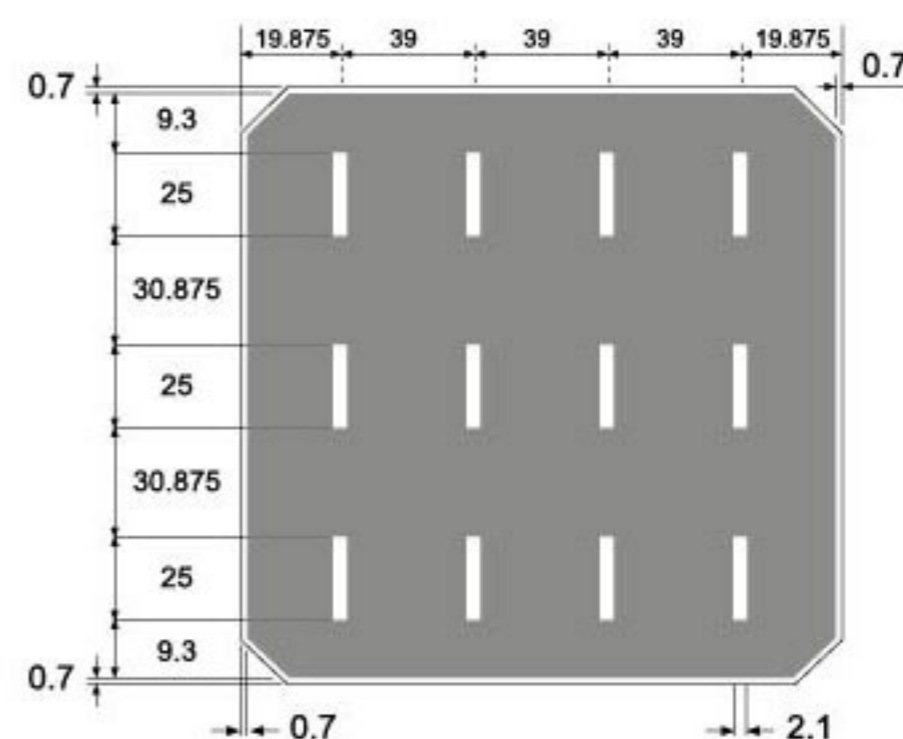


Temperature coefficients

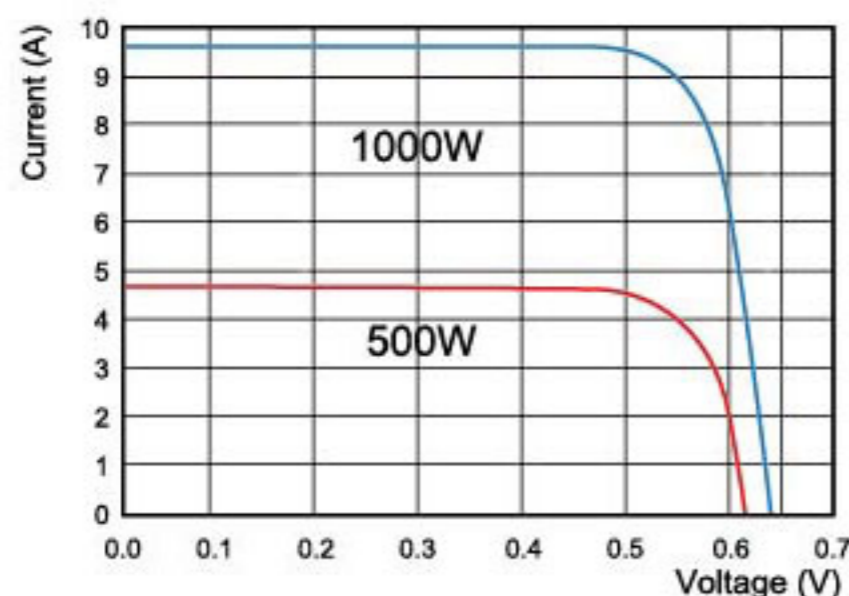
Current (%/K)	0.0398
Voltage (%/K)	-0.3099
Power (%/K)	-0.4070

Light Intensity Dependence

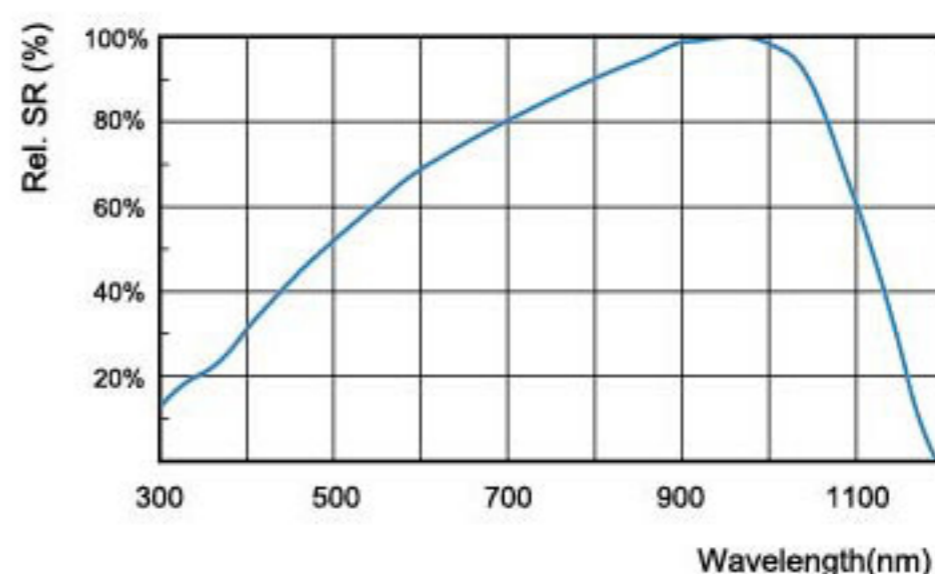
Intensity [W/m ²]	V _{mpp}	I _{mpp}
1000	1.000	1.000
900	0.997	0.901
500	0.977	0.499
300	0.956	0.298
200	0.932	0.197



IV Curve



Spectral Response



Electrical Characteristics (Preliminary)

Efficiency(%)	P _{mpp} (W)	U _{mpp} (V)	I _{mpp} (A)	U _{oc} (V)	I _{sc} (A)	FF(%)
20.90	5.06	0.557	9.077	0.653	9.688	79.96
20.80	5.04	0.556	9.062	0.652	9.683	79.70
20.70	5.02	0.554	9.055	0.651	9.684	79.48
20.60	4.99	0.552	9.033	0.651	9.672	79.18
20.50	4.97	0.550	9.022	0.650	9.673	78.90
20.40	4.94	0.548	9.012	0.649	9.674	78.59
20.30	4.92	0.546	9.009	0.649	9.655	78.42
20.20	4.89	0.543	9.012	0.648	9.634	78.29
20.10	4.87	0.541	8.998	0.648	9.617	78.14
20.00	4.85	0.540	8.977	0.647	9.600	77.96

*Data under standard testing conditions (STC): 1,000W /m² , AM1.5, 25 °C, P_{max}: Positive power tolerance.