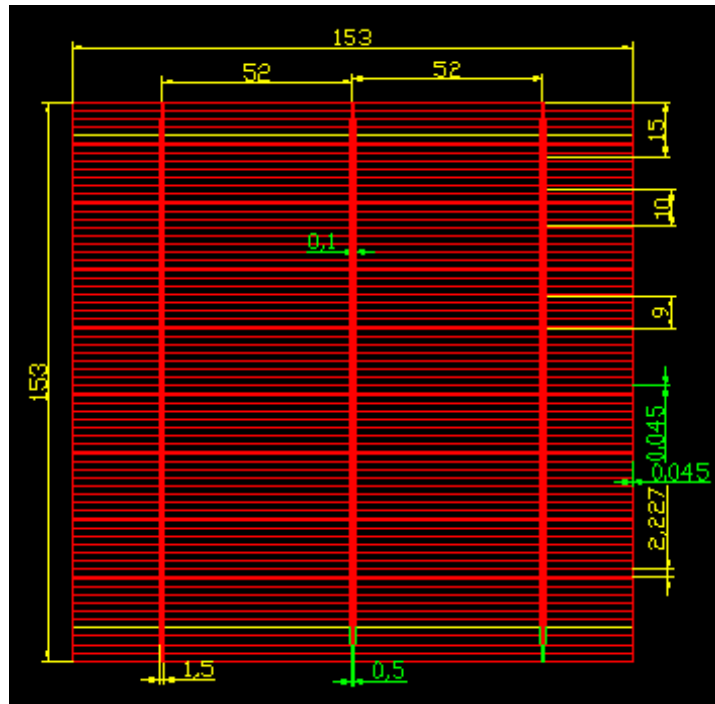


## 156M Solar Cell Specification



Polycrystalline Solar Cell

Model: 156M

Dimension:  $156 \times 156 \text{ mm} \pm 0.5 \text{ mm}$

Width of Main grid: 1.5mm

Width of Side grid:  $45 \mu\text{m}$

Thickness of solar cell:  $220 \mu\text{m} \pm 30 \mu\text{m}$

NO.	Efficiency (%)	Pmpp (W)	Umpp (V)	Impp (A)	Uoc (U)	Isc (A)	FF (%)
1	15.60-15.79	3.819	0.511	7.474	0.612	8.006	77.95
2	15.80-15.99	3.868	0.514	7.525	0.615	8.048	78.15
3	16.00-16.19	3.916	0.517	7.574	0.618	8.088	78.34
4	16.20-16.39	3.965	0.52	7.625	0.621	8.144	78.4
5	16.40-16.59	4.014	0.523	7.675	0.624	8.194	78.51
6	16.60-16.79	4.062	0.525	7.737	0.626	8.25	78.65
7	16.80-16.99	4.111	0.528	7.786	0.628	8.289	78.97
8	17.00-17.19	4.16	0.531	7.834	0.63	8.35	79.08
9	17.20-17.39	4.208	0.534	7.88	0.632	8.401	79.25
10	17.40-17.6	4.257	0.536	7.942	0.634	8.449	79.47

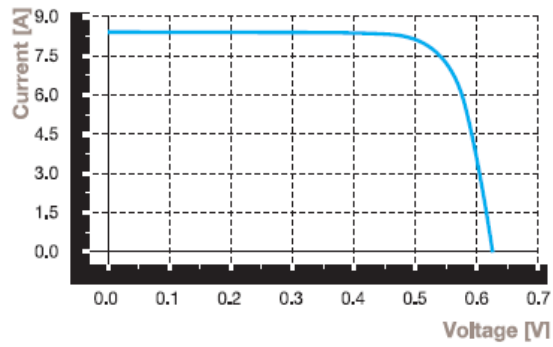
Temperature Coefficient of Solar Cell:

Short circuit temperature coefficient  $a=+0.077\%/k$

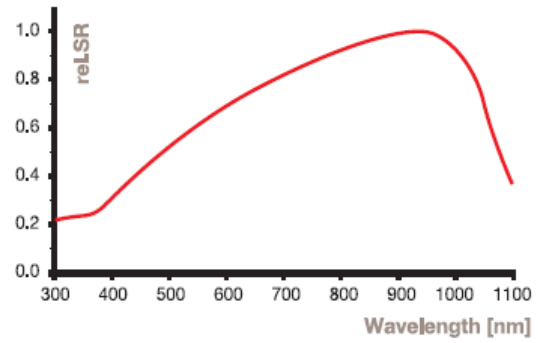
Open voltage temperature coefficient  $b=-0.368\%/k$

Max power temperature coefficient  $r=-0.364\%/k$

### IV CURVE



### SPECTRAL RESPONSE



### INTENSITY DEPENDENCE

Intensity [W/m <sup>2</sup> ]	Isc*	Voc*	Pmpp
1000	1,00	1,00	1,00
900	0,90	1,00	0,90
800	0,80	0,99	0,80
500	0,50	0,96	0,49
300	0,30	0,93	0,29
200	0,20	0,92	0,19

\*Ratio of Voc(Isc) at reduced intensity to Voc(Isc) at 1000 W/m<sup>2</sup>