

# Natural Gift of Sunlight

## TECHNICAL DATA AND DESIGN

- **Dimension**

156.75mm\*156.75mm±0.25mm

- **Back(+)**

Width of back electrode (silver) 1.8mm,  
Back surface field (aluminum)

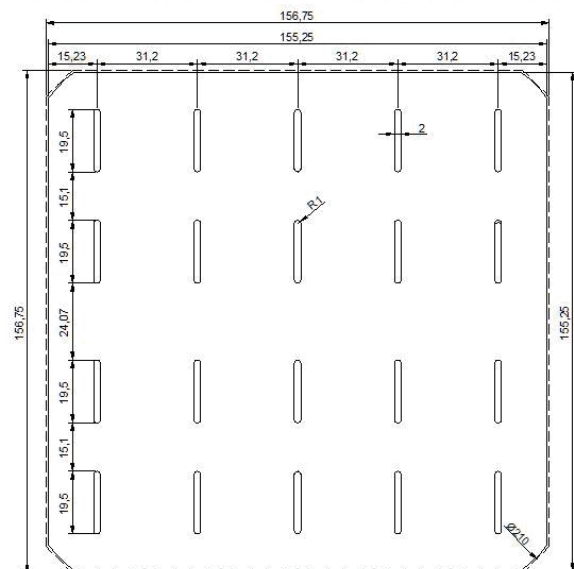
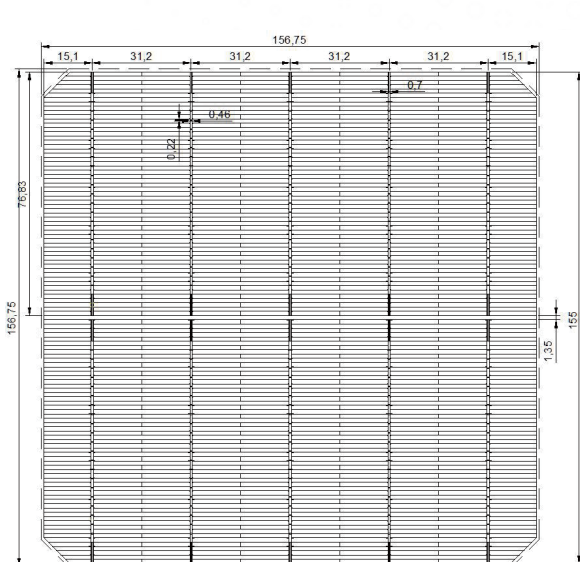
- **Thickness**

190±30μm

- **Front**

5\*0.7mm, Bus bars (silver), 116 finger grids,  
Blue anti-reflecting coating (silicon nitride)

### Product Appearance

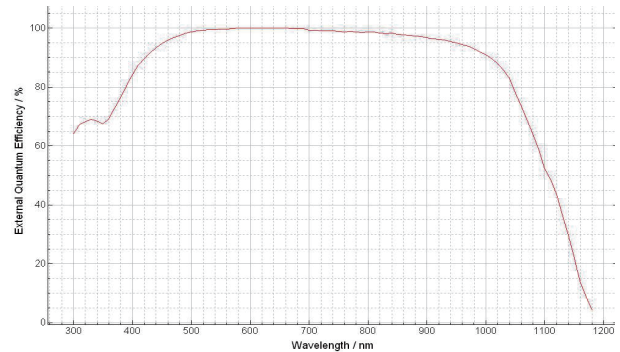


## TEMPERATURE COEFFICIENT



TkVoc(%/K)	-0.36
Tklsc(%/K)	+0.06
TkP <sub>MAX</sub> (%/K)	-0.36

Spectral response  
(external quantum efficiency)



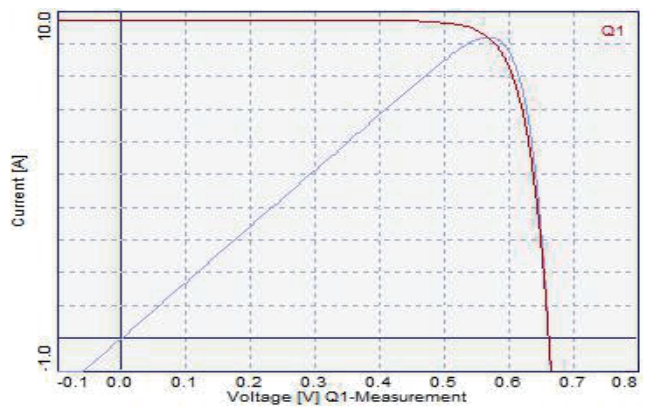
## LIGHT INTENSITY RELIABILITY



Intensity(W/m <sup>2</sup> )	Voc	Isc
1000	1.00	1.0
900	0.99	0.9
800	0.99	0.8
600	0.98	0.6
400	0.96	0.4

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

IV CURVE



## SOLDER ABILITY

Peel Strength Minimum  $\geq 1.5\text{N/mm}$

Result may be different due to different ribbons, soldering methods and parameters.

# ELECTRICAL PERFORMANCE



Efficiency Code	Efficiency (%)	Pmpp (W)	Vmpp (V)	Imp (A)	Voc (V)	Isc (A)	FF (%)
MS-156.75M-226	22.6	5.52	0.584	9.452	0.685	9.925	81.22
MS-156.75M-225	22.5	5.50	0.583	9.432	0.684	9.906	81.13
MS-156.75M-224	22.4	5.47	0.582	9.399	0.683	9.881	81.09
MS-156.75M-223	22.3	5.45	0.581	9.380	0.682	9.855	80.95
MS-156.75M-222	22.2	5.42	0.580	9.347	0.681	9.892	80.82
MS-156.75M-221	22.1	5.40	0.579	9.345	0.680	9.841	80.69
MS-156.75M-220	22.0	5.38	0.578	9.342	0.679	9.824	80.58
MS-156.75M-219	21.9	5.35	0.577	9.329	0.678	9.813	80.42
MS-156.75M-218	21.8	5.33	0.576	9.216	0.677	9.802	80.26
MS-156.75M-217	21.7	5.30	0.575	9.303	0.676	9.794	80.08
MS-156.75M-216	21.6	5.28	0.574	9.291	0.675	9.783	79.92
MS-156.75M-215	21.5	5.25	0.573	9.279	0.674	9.770	79.77
MS-156.75M-214	21.4	5.23	0.571	9.269	0.673	9.755	79.64
MS-156.75M-213	21.3	5.20	0.569	9.255	0.672	9.745	79.47

\*  
 STC (Standard Testing Conditions):1000W/m<sup>2</sup>, AM1.5,25°C.  
 Technical parameters above-mentioned subjects to technical changes and tests.