

Natural Gift of Sunlight

MECHANICAL DATA AND DESIGN

- **Dimension**

157mm*157mm±0.25mm

- **Front**

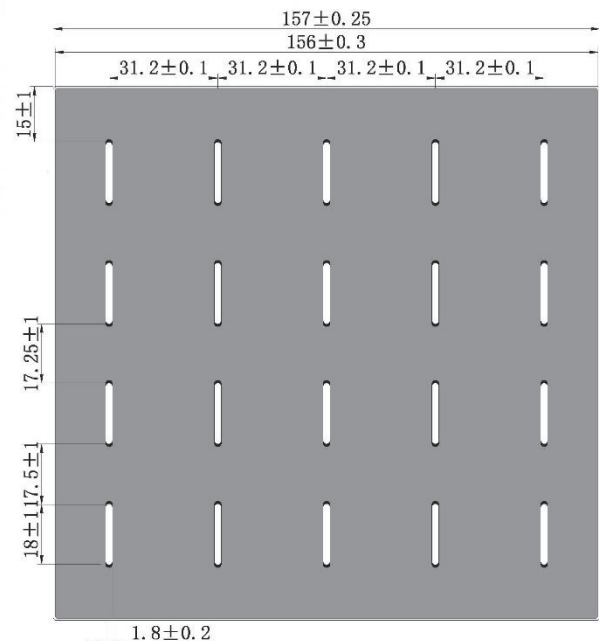
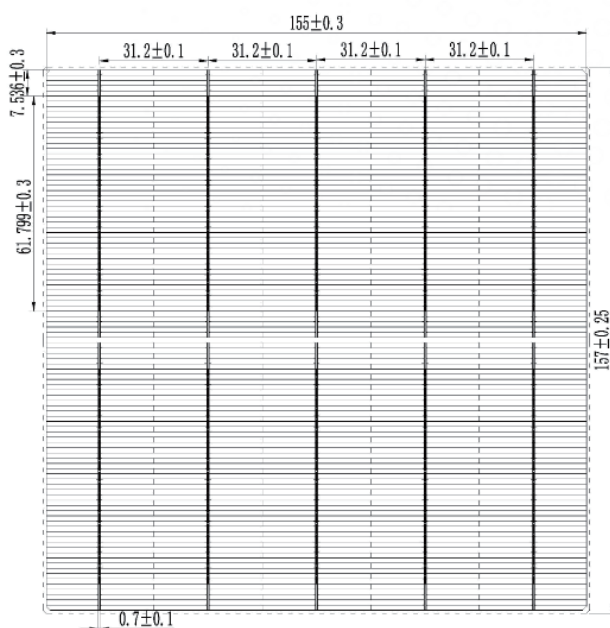
5*0.7 bus bars (silver),
104 finger grids,
Blue anti-reflecting coating(silicon nitride)

- **Back(+)**

5*1.8mm busbars(silver),
Back surface field (aluminum)

- **Thickness**

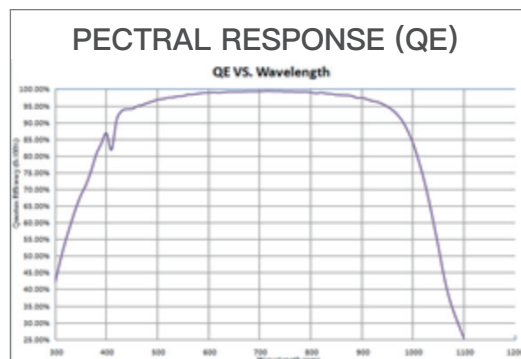
200±30um



TEMPERATURE COEFFICIENTS



TkUoc (%/K)	-0.36
Tklsc (%/K)	+0.06
TkP _{MAX} (%/K)	-0.36



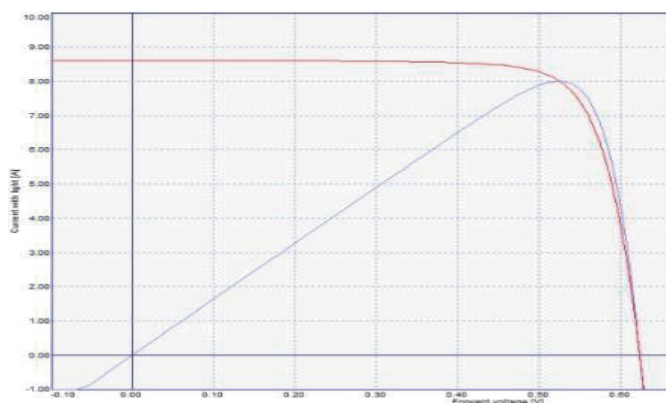
LIGHT INTENSITY RELIABILITY



Intensity(W/m ²)	Uoc	Isc
1000	1.0	1.0
900	0.99	0.9
800	0.99	0.8
600	0.98	0.6
400	0.96	0.4

以1000W/m²测试的Voc(Isc)为标准, 测试Voc(Isc)随光强下降的幅度。

IV CURVE



SOLDER ABILITY

Peel Strength Minimum >1.73N/mm

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

ELECTRICAL PERFORMANCE



Efficiency Code	Efficiency (%)	Impp (A)	Impp (A)	Pmpp (W)	Umpp (W)	Impp (A)	Uoc (V)	Isc (A)
MS-157P-190	19.00%	8.20	/	4.67	0.548	8.513	0.645	9.024
MS-157P-189	18.90%	8.20	/	4.64	0.547	8.489	0.644	9.003
MS-157P-188	18.80%	8.20	/	4.62	0.546	8.461	0.643	8.991
MS-157P-187	18.70%	8.20	/	4.59	0.544	8.440	0.641	8.977
MS-157P-186	18.60%	8.20	/	4.57	0.543	8.424	0.640	8.958
MS-157P-185	18.50%	8.15	/	4.55	0.541	8.406	0.638	8.936
MS-157P-184	18.40%	8.15	/	4.52	0.539	8.382	0.637	8.920
MS-157P-183	18.30%	8.15	/	4.50	0.538	8.362	0.636	8.907
MS-157P-182	18.20%	8.10	/	4.47	0.535	8.351	0.634	8.892
MS-157P-181	18.10%	8.10	/	4.45	0.534	8.333	0.633	8.880

*

STC (Standard Testing Conditions):1000W/m, AM1.5,25°C.

Specifications subjects to technical changes and tests Tongwei Solar reserves the right of final interpretation.