

Natural Gift of Sunlight

TECHNICAL DATA AND DESIGN

- Dimension**

166mm*166mm±0.5mm

TkVoltage: -0.36%/K

- Back(+)**

Width of back electrode (silver) $1.3 \pm 0.3 / 1.7 \pm 0.3 / 2.5 \pm 0.3$ mm, Back surface field (aluminum)

$R_{sh} \geq 35 \Omega$, $I_{rev2} \leq 0.8A$

- Thickness**

$190 \pm 30 \mu m$

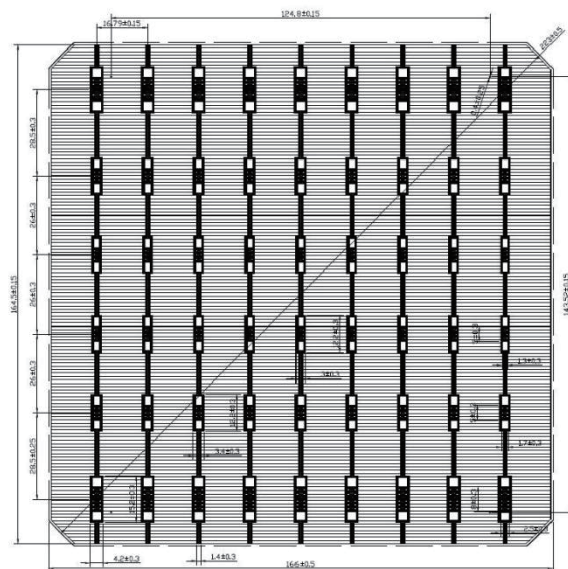
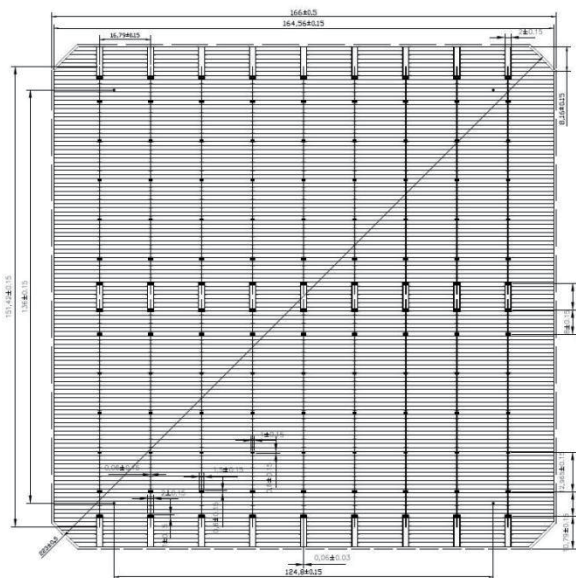
TkCurrent: +0.07%/K

- Front**

$9 \times 0.06 \pm 0.03$ mm bus bars (silver), 122 finger grids, Blue anti-reflecting coating (silicon nitride)

TkPower: -0.38%/K

Product Appearance

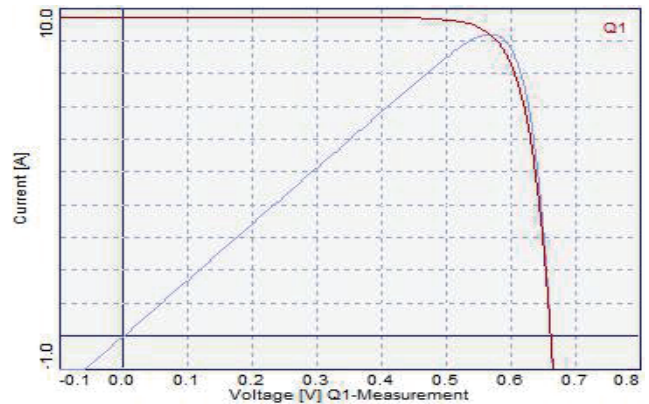


LIGHT INTENSITY RELIABILITY

Intensity(W/m ²)	Voc	Isc
1000	1.000	1.000
900	0.996	0.903
800	0.991	0.803
600	0.988	0.602
400	0.962	0.403

Ratio of Voc(Isc) at reduced intensity to Voc(Isc)at 1000W/m².

IV CURVE



SOLDER ABILITY

Peel Strength Minimum $\geq 1.4\text{N/mm}$

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

ELECTRICAL PERFORMANCE

Efficiency Code	Efficiency (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
MS-166M-229	22.9	6.28	0.5891	10.657	0.6879	11.110	82.14
MS-166M-228	22.8	6.25	0.5876	10.638	0.6863	11.091	82.11
MS-166M-227	22.7	6.22	0.5861	10.618	0.6847	11.078	82.05
MS-166M-226	22.6	6.20	0.5847	10.598	0.6833	11.064	81.96
MS-166M-225	22.5	6.17	0.5832	10.578	0.6817	11.051	81.88
MS-166M-224	22.4	6.14	0.5817	10.558	0.6806	11.045	81.70
MS-166M-223	22.3	6.11	0.5802	10.538	0.6795	11.032	81.56
MS-166M-222	22.2	6.09	0.5787	10.518	0.6781	11.024	81.42
MS-166M-221	22.1	6.06	0.5772	10.497	0.6772	11.013	81.24
MS-166M-220	22.0	6.03	0.5758	10.475	0.6759	11.002	81.12
MS-166M-219	21.9	6.00	0.5743	10.454	0.6742	10.992	81.02
MS-166M-218	21.8	5.98	0.5727	10.436	0.6722	10.981	80.97
MS-166M-217	21.7	5.95	0.5715	10.410	0.6702	10.968	80.94
MS-166M-216	21.6	5.92	0.5700	10.389	0.6681	10.953	80.92
MS-166M-215	21.5	5.89	0.5683	10.373	0.6663	10.938	80.88

*

STC (Standard Testing Conditions):1000W/m², AM1.5,25°C.

Technical parameters above-mentioned subjects to technical changes and tests.