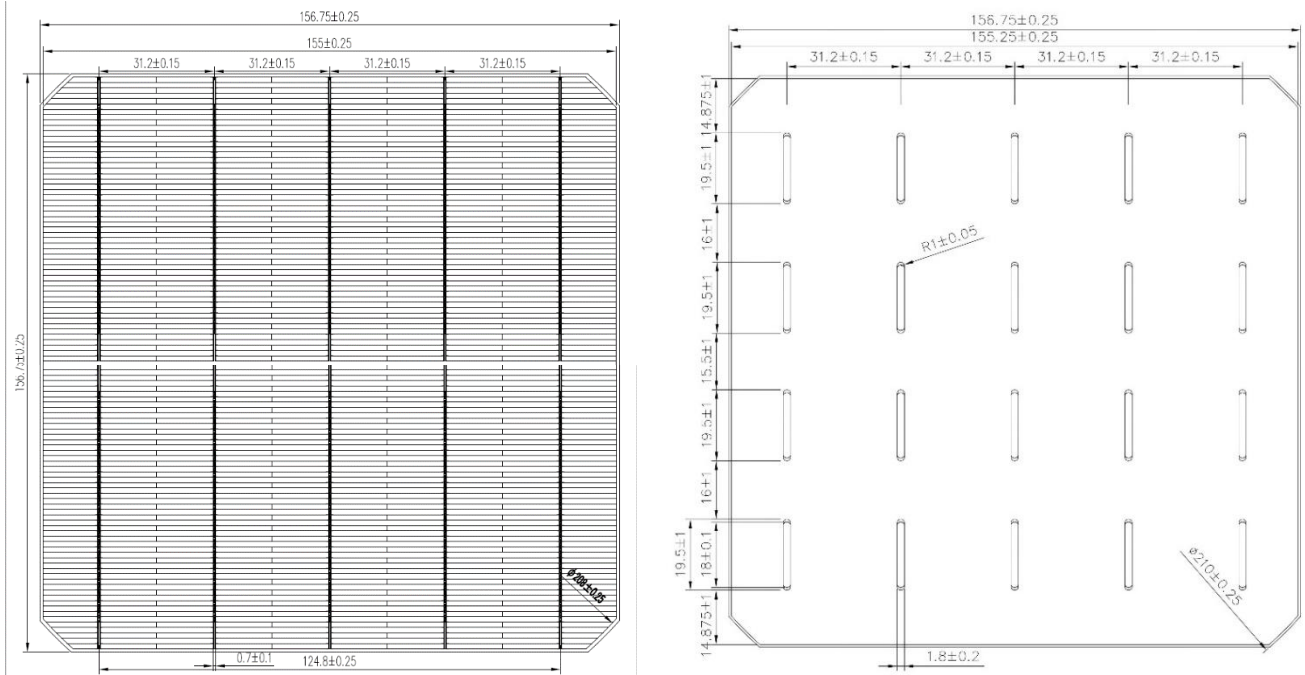


## TW Solar M1565BPERC SE Monocrystalline Silicon Solar Cell

M1565BPERC

### Product Appearance



### Mechanical Data and Design

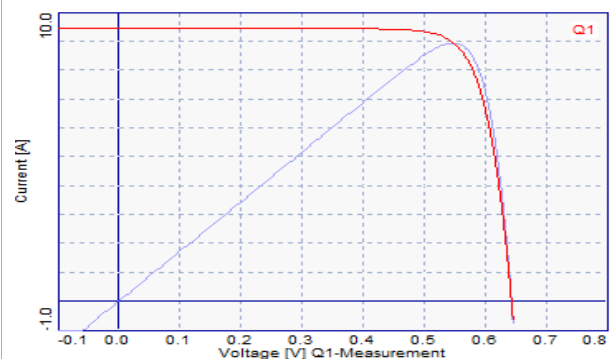
<b>Dimension</b>	<b>156.75mm*156.75mm ±0.25mm</b>	<b>TkVoltage: -0.36 %/K</b>
<b>Thickness</b>	<b>190 ±30μm</b>	<b>TkCurrent: +0.07%/K</b>
<b>Front</b>	<b>5 bus bars (silver), width 0.7 ±0.1mm , 108 finger grids , Blue anti-reflecting coating (silicon nitride)</b>	<b>TkPower: -0.38%/K</b>
<b>Back (+)</b>	<b>wide soldering pads (silver)1.8 ±0.2 mm, Back surface field (aluminum)</b>	<b>Rsh ≥30 Ω , Irev2 ≤1.0A</b>

## Light Intensity dependence

Intensity(W/m <sup>2</sup> )	Uoc	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/m<sup>2</sup>.

## 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.

Efficiency Code	Efficiency (%)	Pmpp (W)	Umpp (V)	Impp (A)	Uoc (V)	Isc (A)	FF (%)
TW-156.75M-220	22.00	5.38	0.578	9.342	0.679	9.847	80.58
TW-156.75M-219	21.90	5.35	0.577	9.329	0.678	9.832	80.42
TW-156.75M-218	21.80	5.33	0.576	9.316	0.677	9.818	80.26
TW-156.75M-217	21.70	5.30	0.575	9.303	0.676	9.803	80.08
TW-156.75M-216	21.60	5.28	0.574	9.291	0.675	9.788	79.92
TW-156.75M-215	21.50	5.25	0.573	9.279	0.674	9.774	79.77
TW-156.75M-214	21.40	5.23	0.571	9.269	0.673	9.759	79.64
TW-156.75M-213	21.30	5.20	0.569	9.255	0.672	9.744	79.47
TW-156.75M-212	21.20	5.18	0.567	9.244	0.671	9.730	79.34
TW-156.75M-211	21.10	5.16	0.566	9.205	0.670	9.724	79.22
TW-156.75M-210	21.00	5.13	0.565	9.180	0.669	9.709	79.08
TW-156.75M-209	20.90	5.11	0.564	9.162	0.668	9.703	78.90
TW-156.75M-208	20.80	5.08	0.562	9.140	0.667	9.681	78.74
TW-156.75M-207	20.70	5.06	0.560	9.113	0.666	9.667	78.60
TW-156.75M-206	20.60	5.03	0.558	9.089	0.665	9.652	78.42

STC (Standard Testing Conditions):1000W/m<sup>2</sup>, AM1.5, 25°C

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