

125mmX125mm

Cells Monocrystalline Silicon

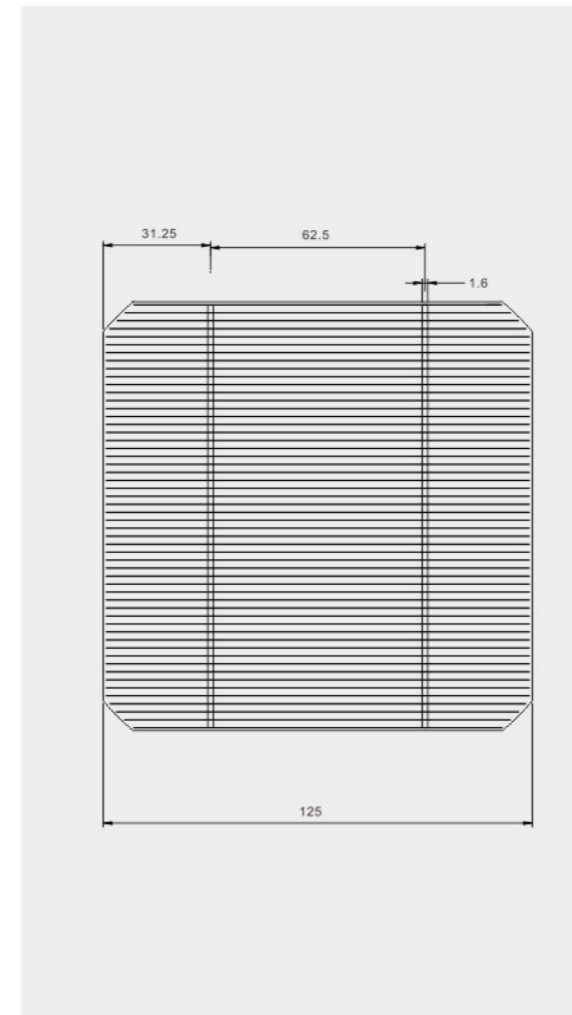


Dimension: 125mmX125mm±0.5mm
 Diagonal: 150mm±1.0mm(round chamfers)
 Thickness(Si): 200um±20um, 180um±20um
 Front: Blue silicon nitride antireflective coatings 1.7mm silver busbar
 Back: Full-surface aluminum back-surface field 3.5mm silver continuous soldering pads.

- 1、 High photoelectric transformation efficiency, high reliability, low weaken, long life.
- 2、 Advanced PECVD Technology make the dark blue film better distributed.
- 3、 High quality silver paste results in solar cell contacts of high strength and low series resistance.
- 4、 Each PV cell is inspected and checked for current reversion, micro cracks, chipping, warping, and any uneven thickness.
- 5、 Boway's inspected and checked cells are individually tested and grouped into over 24 performance classes within 2% test accuracy.

Efficiency(%)	Pmpp(W)	Umpp(V)	Ipp(V)	Voc(V)	Isc(A)	FF(%)
18.00-18.20	2.67	0.525	5.086	0.631	5.377	78.690
17.80-18.00	2.64	0.524	5.038	0.631	5.350	78.360
17.60-17.80	2.62	0.520	5.034	0.628	5.343	77.905
17.40-17.60	2.59	0.512	5.051	0.627	5.331	77.299
17.20-17.40	2.56	0.521	4.901	0.625	5.292	77.226
17.00-17.20	2.53	0.519	4.871	0.623	5.281	76.719
16.80-17.00	2.50	0.510	4.890	0.620	5.259	76.496
16.60-16.80	2.47	0.510	4.841	0.619	5.284	75.458
16.40-16.60	2.44	0.507	4.809	0.622	5.225	75.012
16.20-16.40	2.41	0.500	4.814	0.616	5.238	74.555
16.00-16.20	2.38	0.500	4.759	0.612	5.235	74.318

Data under standard testing conditions(stc): 1000W/m², AM1.5, 25°C



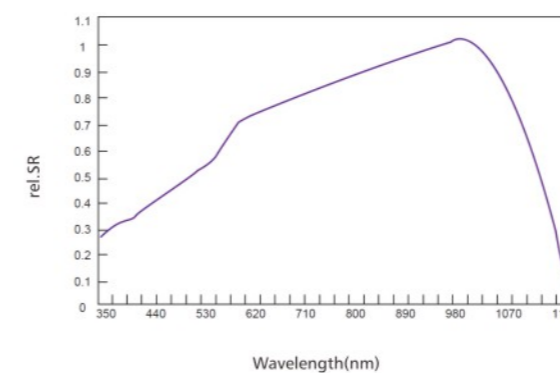
Temperature Coefficients		
Current temperature coefficient	$\alpha(Isc)$	0.10%/°C
Current temperature coefficient	$\beta(Voc)$	-0.38%/°C
Current temperature coefficient	$\gamma(Pmax)$	-0.47%/°C
standard testing conditions: AM1.5, 1000W/m ² , 25°C		

Solder Ability	
Side	Peel strength
Front Side Average	> 1.7N/mm
Back Side Average	> 1.6N/mm
Back Side Average	> 1.2N/mm
Ribbon width 2mm, solder at 300-400°C with no clean flux.	

Light Intensity Dependence		
Intensity W/m ²	Vpm	Ipm
1000	1	1
800	0.991	0.8
600	0.980	0.6
200	0.937	0.2
100	0.910	0.1
60	0.890	0.06
30	0.863	0.03
15	0.836	0.015

Vpm = Maximum Power Voltage Ipm = Maximum Power Current

Spectral Response



IV-Curve

