



ExcelTon II, 6" Multi-crystalline, 3BB, Solar Cell

Characteristics

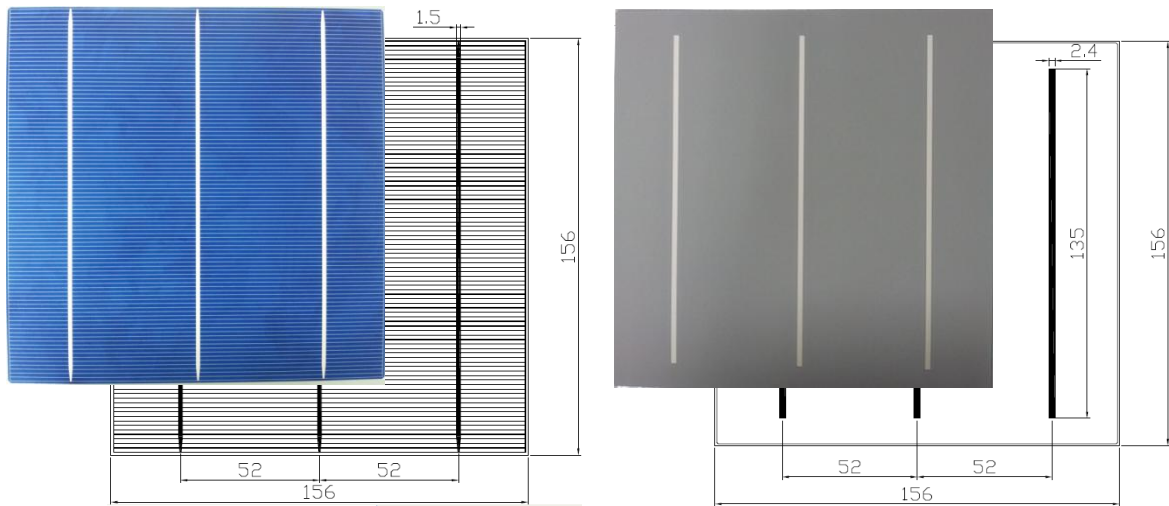
Dimensions	156mm x 156mm ± 0.5mm
Thickness(Si)	180µm ± 20µm / 200µm ± 20µm
Front	Silver bus bars; Blue/Purple Silicon nitride anti-reflection coating
Back	Silver bus bars; Full-surface aluminum BSF

Features

1. High conversion efficiency
2. Excellent solder-ability and adhesion strength
3. Low breakage rate
4. Good color uniformity
5. Vacuum package to avoid oxidation
6. Three bus bars to reduce series resistance and improve module power

Quality

1. PID free
2. 100% in-line inspection of optical, $I_{rev} (<2.0A @ -10V, <2.5A @ -12V)$ and $R_{sh} (>10 \text{ ohm})$.
3. Long term efficiency stability and excellent reliability
4. ISO 9001, ISO 14001 and OHSAS 18001 certified.



Efficiency Code	Efficiency (%)	Charged Power (Wp)	I_{mp} (A)	V_{mp} (V)	I_{sc} (A)	V_{oc} (V)
ETM6-1810	18.10	4.40	8.26	0.535	8.77	0.636
ETM6-1800	18.00	4.38	8.24	0.534	8.76	0.635
ETM6-1790	17.90	4.36	8.22	0.532	8.74	0.633
ETM6-1780	17.80	4.33	8.20	0.530	8.72	0.631
ETM6-1770	17.70	4.31	8.18	0.528	8.71	0.630
ETM6-1760	17.60	4.28	8.15	0.526	8.69	0.628
ETM6-1750	17.50	4.26	8.13	0.525	8.66	0.626
ETM6-1740	17.40	4.23	8.10	0.524	8.63	0.625
ETM6-1730	17.30	4.21	8.08	0.522	8.61	0.623
ETM6-1720	17.20	4.19	8.06	0.521	8.59	0.622
ETM6-1710	17.10	4.16	8.04	0.519	8.57	0.621

* Under standard test condition: 1000W / m², AM 1.5, 25°C

* Average accuracy of all tested figures is ±1.0% rel.

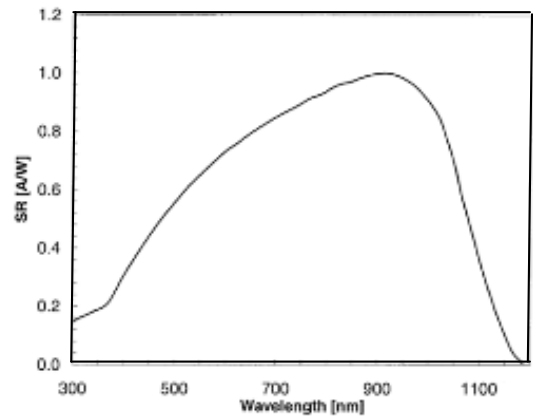
Temperature Coefficient	
Current (Alpha)	0.059±0.007%/°C
Voltage (Beta)	-0.300±0.024%/°C
Power (Gamma)	-0.342±0.04%/°C

Light Intensity (W/m ²)	Voc	Isc
1000	1.000	1.0
800	0.990	0.8
600	0.975	0.6
400	0.954	0.3
300	0.947	0.3

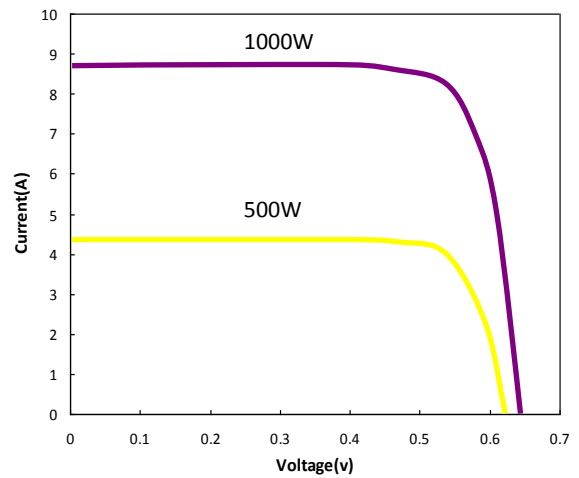
Solderability	>1.2N/mm for 70% measured points
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These results can be obtained by soldering at 250-350°C with Eton regular flux, ribbon (Pb free), soldering & pulling machine. Results may vary by different flux, ribbons, soldering method used.

Spectrum Response (SR)



IV-Curve



Packaging

The goods are packed into the container with good quality, which protects them from damage during the transportation. Every 100 cells are sealed by Shrinkable Film or vacuum package.

Handling

Avoid handlings happened as follows because they may cause electrical or soldering performance degradation.

- Avoid handling with hands without plastic gloves
- Avoid careless and violent handling since this causes damage or cracks
- Contacting with corrosive chemicals or gases
- Scrubbing the surface

Storage

Keeping away from corrosive chemicals or gases and keeping in the storage room with temperature at 25±5°C, humidity less than 65%. Do not expose cells to the air. It is recommended to use the cells ASAP after unpacking.

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