



# ExcelTon II, 6" Multi-crystalline, 4BB, Solar Cell

## Characteristics

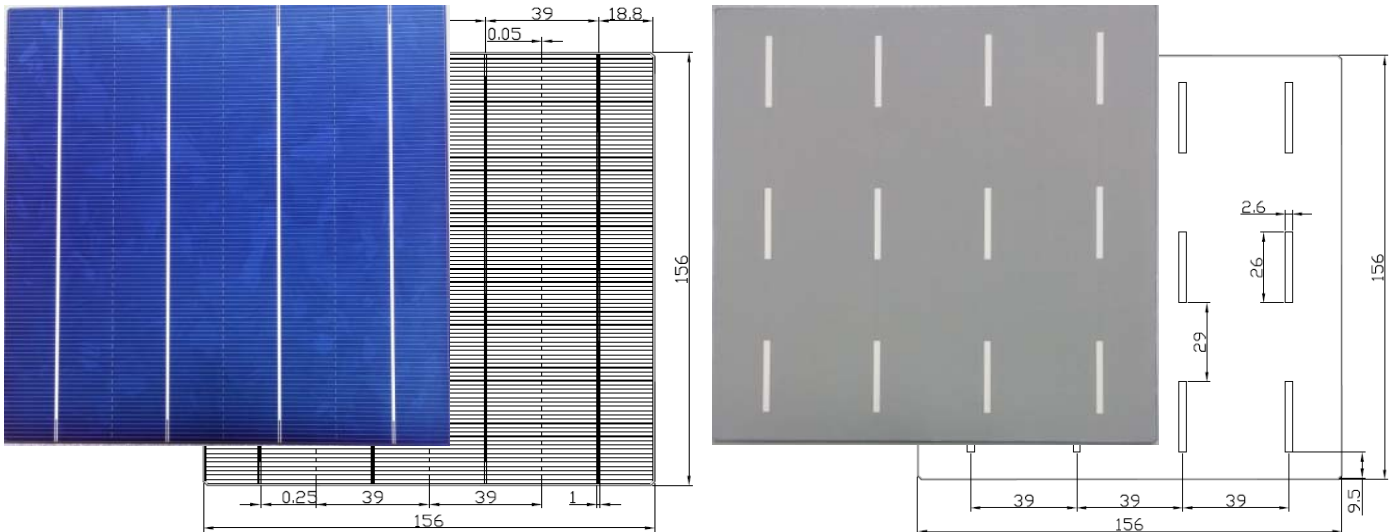
Dimensions	156mm x 156mm ± 0.5mm
Thickness(Si)	180µm ± 20µm / 200µm ± 20µm
Front	Silver bus bars; Blue/Purple Silicon nitride anti-reflection coating
Back	Silver bus bars; Full-surface aluminum BSF

## 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

## Quality

1. PID free
2. 100% in-line inspection of optical, Irev (<2.0A @ -10V, <2.5A @ -12V) and Rsh (>10 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 <sub>mp</sub> (A)	V <sub>mp</sub> (V)	I <sub>sc</sub> (A)	Voc (V)
ETM6-1870	18.70	4.55	8.34	0.542	8.86	0.640
ETM6-1860	18.60	4.53	8.33	0.541	8.84	0.639
ETM6-1850	18.50	4.50	8.32	0.540	8.82	0.638
ETM6-1840	18.40	4.48	8.31	0.539	8.80	0.637
ETM6-1830	18.30	4.45	8.30	0.537	8.78	0.636
ETM6-1820	18.20	4.43	8.27	0.536	8.76	0.635
ETM6-1810	18.10	4.40	8.25	0.535	8.74	0.634
ETM6-1800	18.00	4.38	8.23	0.534	8.73	0.633
ETM6-1790	17.90	4.36	8.21	0.531	8.72	0.632
ETM6-1780	17.80	4.33	8.20	0.530	8.71	0.631
ETM6-1770	17.70	4.31	8.18	0.528	8.71	0.630

\* Under standard test condition: 1000W / m<sup>2</sup>, AM 1.5, 25°C

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

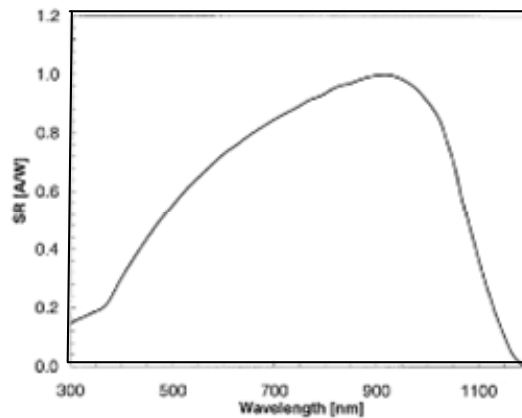
Temperature Coefficient	
Current (Alpha)	0.059±0.007%/°C
Voltage (Beta)	-0.300±0.024%/°C
Power (Gamma)	-0.342±0.04%/°C

Light Intensity (W/m <sup>2</sup> )	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

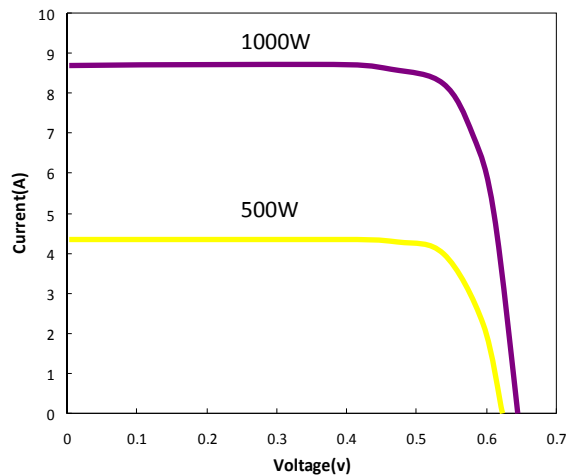
<b>Solderability</b>	>1.2N/mm for 70% measured points
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These results can be obtained by soldering at 250-350°C with Eton regular flux, ribbon (Pb free), soldering & pulling machine. Results may vary by different flux, ribbons, soldering method used.

### 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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