



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

## Characteristics

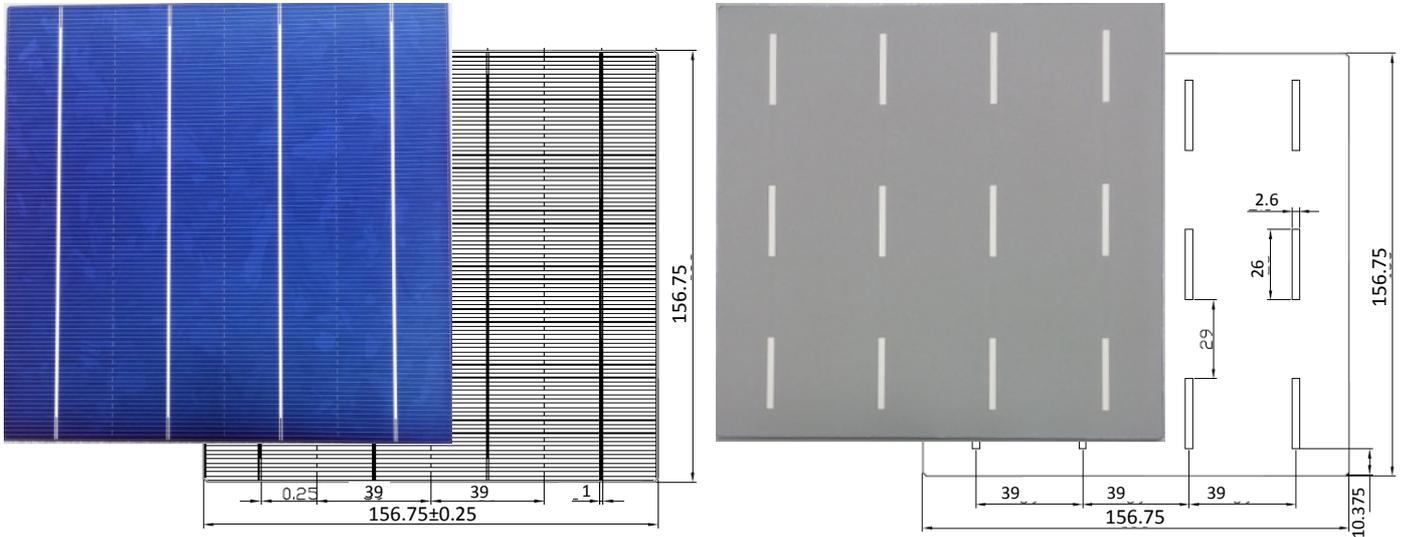
Dimensions	156.75mm x 156.75mm ± 0.25mm
Thickness(Si)	200µm ± 20µm
Front	Silver bus bars; Blue/Purple Silicon nitride anti-reflection coating
Back	Silver bus bars; Full-surface aluminum BSF

## 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)
ETM6-1850	18.50	4.55	8.53	0.533	9.06	0.635
ETM6-1840	18.40	4.52	8.50	0.532	9.04	0.634
ETM6-1830	18.30	4.50	8.48	0.530	9.02	0.633
ETM6-1820	18.20	4.47	8.45	0.529	8.99	0.631
ETM6-1810	18.10	4.45	8.43	0.528	8.97	0.630
ETM6-1800	18.00	4.42	8.40	0.526	8.95	0.629
ETM6-1790	17.90	4.40	8.39	0.524	8.93	0.628
ETM6-1780	17.80	4.37	8.38	0.522	8.91	0.627
ETM6-1770	17.70	4.35	8.36	0.520	8.89	0.626
ETM6-1760	17.60	4.32	8.34	0.518	8.87	0.625
ETM6-1750	17.50	4.30	8.33	0.516	8.85	0.624

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

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

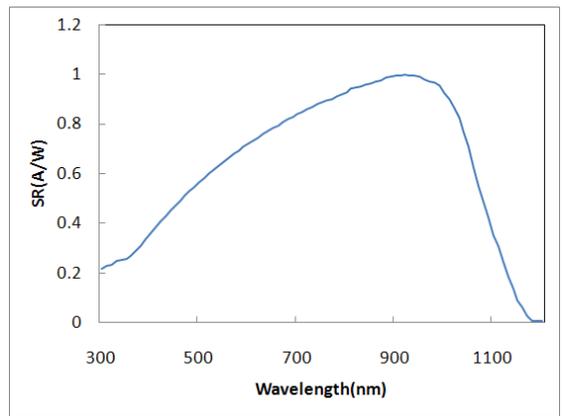
Temperature Coefficient	
Current (Alpha)	0.059±0.007%/°C
Voltage (Beta)	-0.300±0.024%/°C
Power (Gamma)	-0.342±0.04%/°C

Light Intensity (W/m <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

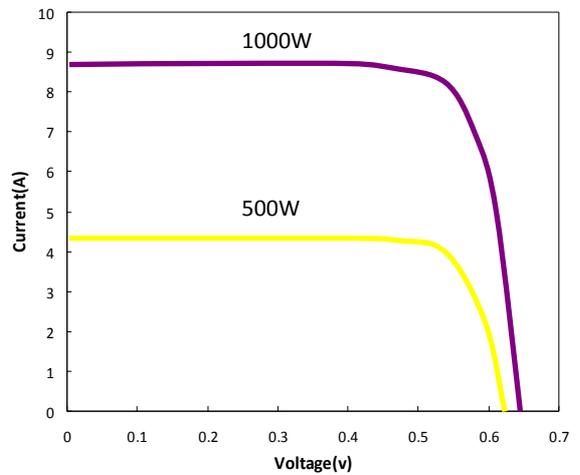
<b>Solderability</b>	>1.2N/mm for 70% measured points
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These results can be obtained by soldering at 250-350°C with Eton regular flux, ribbon (Pb free), soldering & pulling machine. Results may vary by different flux, ribbons, soldering method used.

### 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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