



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

Characteristics

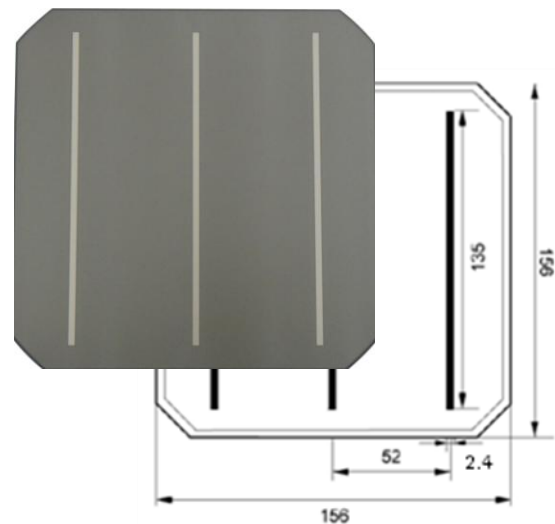
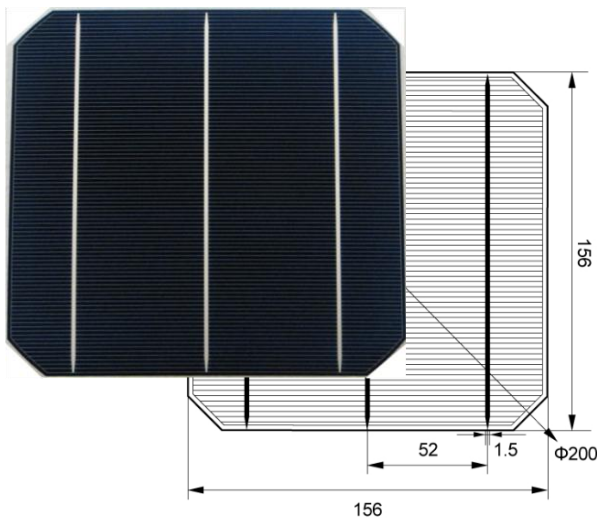
Dimensions	156mm x 156mm ± 0.5mm
Thickness(Si)	180µm ± 20µm / 200µm ± 20µm
Front	Silver bus bars; Blue/Purple Silicon nitride anti-reflection coating
Back	Silver bus bars; Full-surface aluminum BSF

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. Both efficiency and I_{mp} sorting to enhance module output power.
3. Cell efficiency >19.2%, module efficiency >15.8%.
4. 100% in-line inspection of optical, I_{rev} (<2.0A @ -10V, <2.5A @ -12V) and R_{sh} (>10 ohm)
5. Long term efficiency stability and excellent reliability
6. 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)
ETS6-1970	19.70	4.70	8.61	0.547	9.10	0.645
ETS6-1960	19.60	4.68	8.59	0.546	9.08	0.644
ETS6-1950	19.50	4.66	8.57	0.545	9.06	0.643
ETS6-1940	19.40	4.64	8.55	0.543	9.04	0.642
ETS6-1930	19.30	4.61	8.53	0.542	9.02	0.641
ETS6-1920	19.20	4.59	8.51	0.541	9.00	0.640
ETS6-1910	19.10	4.56	8.48	0.540	8.98	0.639
ETS6-1900	19.00	4.54	8.45	0.539	8.96	0.638
ETS6-1890	18.90	4.52	8.43	0.537	8.94	0.637

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

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

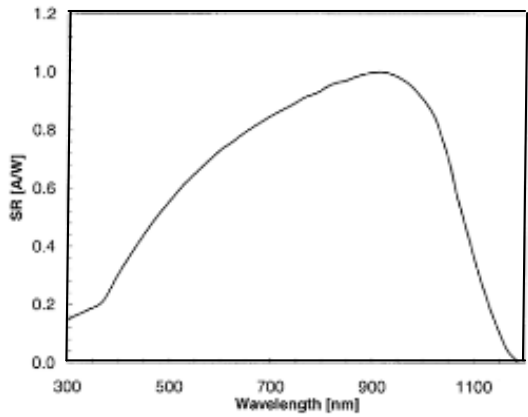
Temperature Coefficient	
Current (Alpha)	0.035%/°C
Voltage (Beta)	-0.309%/°C
Power (Gamma)	-0.342%/°C

Light Intensity (W/m ²)	Voc	Isc
1000	1.000	1.0
800	0.989	0.8
600	0.976	0.6
400	0.956	0.3
300	0.951	0.3

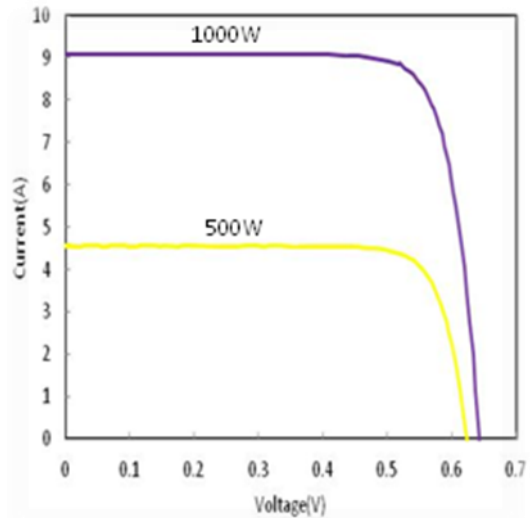
Solderability	>1.2N/mm for 70% measured points
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These results can be obtained by soldering at 250-350°C with Eton regular flux, ribbon (Pb free), soldering & pulling machine. Results may vary by different flux, ribbons, soldering method used.

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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