



ExcelTon III, 6" Mono-crystalline, 4BB, Solar Cell

Characteristics

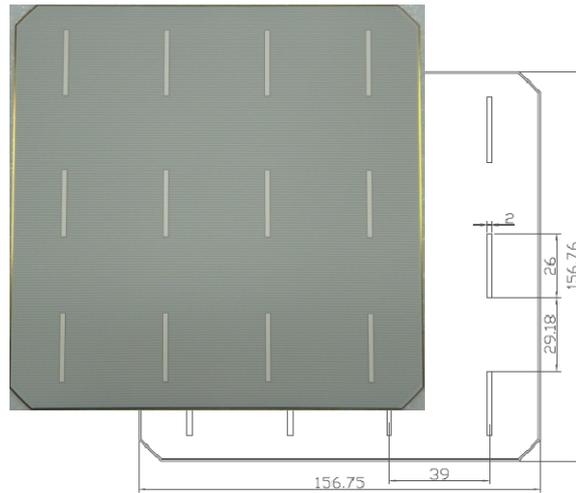
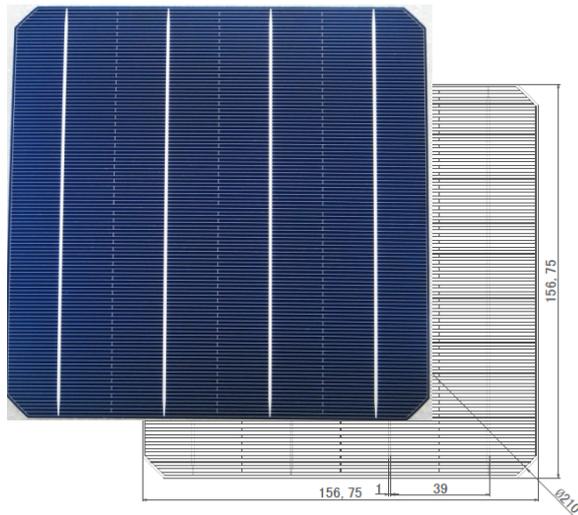
- Dimensions 156.75mm x 156.75mm ± 0.25mm,
With 210mm ± 0.25mm diagonal
- Thickness(Si) 180µm ± 20µm / 200µm ± 20µm
- Front Silver bus bars; Blue/Purple
Silicon nitride anti-reflection coating
- Back Silver bus bars; Full-surface aluminum BSF

Features

1. 2.2% larger area & power for same efficiency bin
2. High conversion efficiency
3. Improved red response
4. Advanced passivation technology
5. Excellent solder-ability and adhesion strength
6. Low breakage rate
7. Good color uniformity
8. Vacuum package to avoid oxidation
9. Four 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. 100% in-line inspection of optical, I_{rev} (<2.0A @ -10V, <2.5A @ -12V) and R_{sh} (>10 ohm).
4. Long term efficiency stability and excellent reliability.
5. 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)
ETS6-2110	21.10%	5.16	9.26	0.557	9.86	0.659
ETS6-2100	21.00%	5.13	9.25	0.555	9.85	0.658
ETS6-2090	20.90%	5.11	9.23	0.554	9.85	0.657
ETS6-2080	20.80%	5.08	9.21	0.552	9.84	0.656
ETS6-2070	20.70%	5.06	9.20	0.550	9.82	0.654
ETS6-2060	20.60%	5.03	9.18	0.548	9.80	0.653
ETS6-2050	20.50%	5.01	9.17	0.546	9.79	0.650
ETS6-2040	20.40%	4.98	9.16	0.543	9.78	0.649
ETS6-2030	20.30%	4.96	9.15	0.542	9.76	0.646
ETS6-2020	20.20%	4.94	9.14	0.540	9.75	0.643

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

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

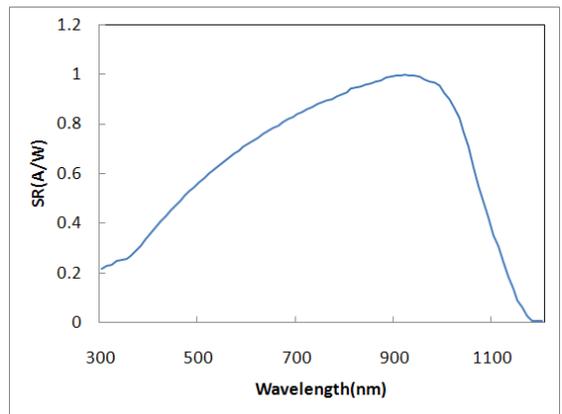
Temperature Coefficient	
Current (Alpha)	0.043%/°C
Voltage (Beta)	-0.317%/°C
Power (Gamma)	-0.439%/°C

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

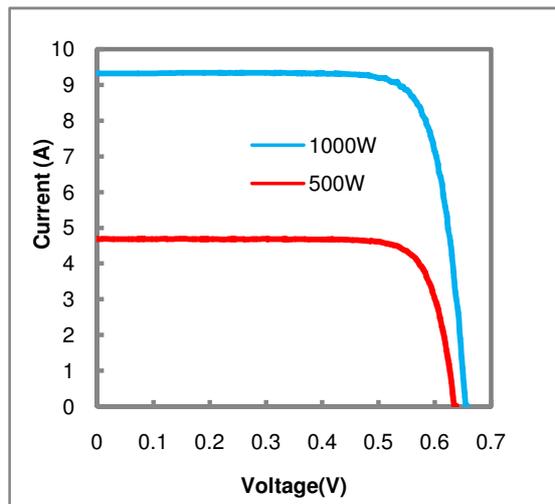
Solderability	>1.2N/mm for 70% measured points
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These results can be obtained by soldering at 250-350°C with Eton regular flux, ribbon (Pb free), soldering & pulling machine. Results may vary by different flux, ribbons, soldering method used.

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 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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