



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

Characteristics

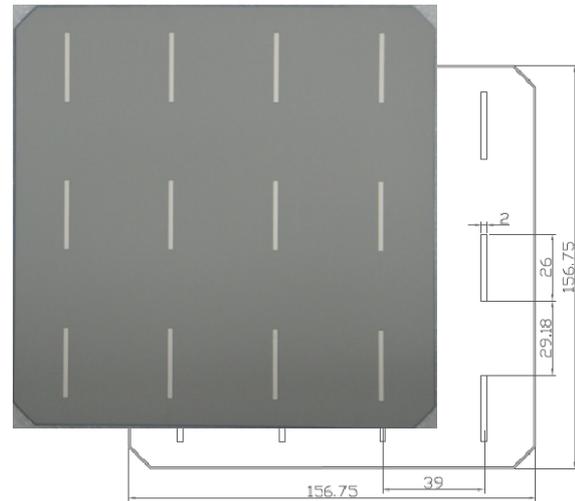
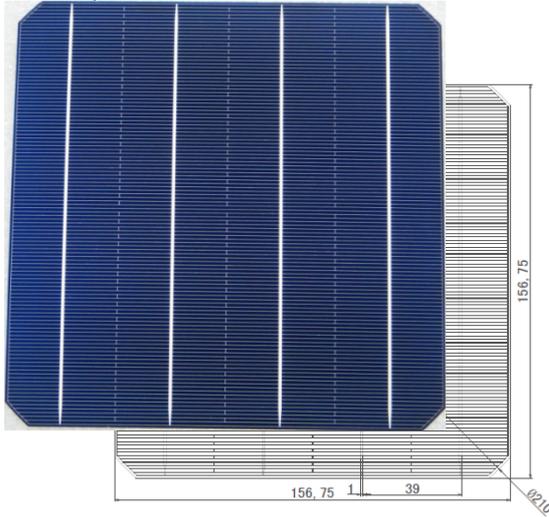
- Dimensions 156.75mm x 156.75mm ± 0.25mm,
With 210mm ± 0.25mm diagonal
- Thickness(Si) 180µm ± 20µm / 200µm ± 20µm
- Front Silver bus bars; Blue/Purple
Silicon nitride anti-reflection coating
- Back Silver bus bars; Full-surface aluminum BSF

Features

1. 2.2% larger area & power for same efficiency bin
2. High conversion efficiency
3. Excellent solder-ability and adhesion strength
4. Low breakage rate
5. Good color uniformity
6. Vacuum package to avoid oxidation
7. 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)
ETS6-2040	20.40%	4.98	8.98	0.555	9.543	0.650
ETS6-2030	20.30%	4.96	8.97	0.553	9.532	0.649
ETS6-2020	20.20%	4.94	8.96	0.551	9.510	0.647
ETS6-2010	20.10%	4.91	8.95	0.549	9.486	0.645
ETS6-2000	20.00%	4.89	8.92	0.548	9.474	0.644
ETS6-1990	19.90%	4.86	8.89	0.547	9.447	0.643
ETS6-1980	19.80%	4.84	8.88	0.545	9.420	0.642
ETS6-1970	19.70%	4.81	8.86	0.543	9.394	0.640
ETS6-1960	19.60%	4.79	8.85	0.541	9.385	0.639
ETS6-1940	19.40%	4.74	8.82	0.537	9.380	0.637

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

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

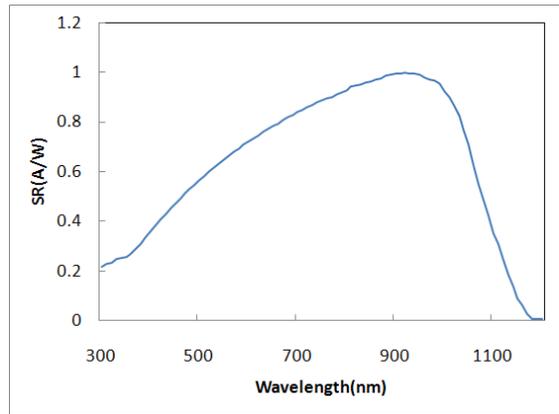
Temperature Coefficient	
Current (Alpha)	0.043%/°C
Voltage (Beta)	-0.317%/°C
Power (Gamma)	-0.439%/°C

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

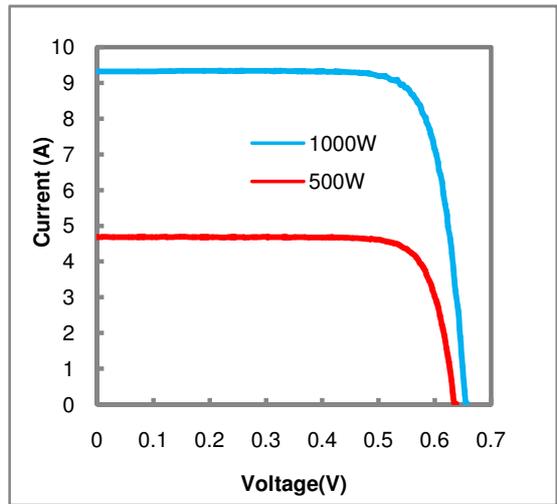
Solderability	>1.2N/mm for 70% measured points
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These results can be obtained by soldering at 250-350°C with Eton regular flux, ribbon (Pb free), soldering & pulling machine. Results may vary by different flux, ribbons, soldering method used.

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.

E-Ton Solar Tech. Co., Ltd.

No. 498, Sec. 2, Bentian Rd., Tainan, 709 Taiwan
 Tel: 886-6-3840777 Fax: 886-6-3840966
 E-mail: business@e-tonsolar.com