

# ExcelTon III, 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

### Quality

1. PID free

# improve module power

- 2. Both efficiency and Impp sorting to enhance module output power.
- 3. Average cell efficiency is 20.0%; module efficiency >16.5%; module power (Wp)>270W (6x10)

Features

1. High conversion efficiency 2. Improved red response

6. Low breakage rate

3. Advanced passivation technology

7. Vacuum package to avoid oxidation

4. Discontinued finger for front side, island BB for rear side

5. Excellent solder-ability and adhesion strength

8. Three bus bars to reduce series resistance and

- 4. 100% in-line inspection of optical, Irev (<2.0A @ -10V, <2.5A @ -12V) and Rsh (>10 ohm).
- 5. Long term efficiency stability and excellent reliability.
- 6. ISO 9001, ISO 14001 and OHSAS 18001 certified.





			4 100			
Efficiency Code	Efficiency (%)	Charged Power (Wp)	I <sub>mp</sub> (A)	V <sub>mp</sub> (V)	I <sub>sc</sub> (A)	Voc (V)
ETS6-2060	20.60%	4.92	8.90	0.553	9.43	0.659
ETS6-2050	20.50%	4.90	8.88	0.552	9.42	0.658
ETS6-2040	20.40%	4.88	8.86	0.550	9.41	0.657
ETS6-2030	20.30%	4.85	8.84	0.549	9.40	0.656
ETS6-2020	20.20%	4.83	8.82	0.548	9.39	0.655
ETS6-2010	20.10%	4.80	8.81	0.547	9.38	0.654
ETS6-2000	20.00%	4.78	8.79	0.545	9.37	0.653
ETS6-1990	19.90%	4.76	8.76	0.544	9.34	0.652
ETS6-1980	19.80%	4.73	8.74	0.543	9.32	0.651
ETS6-1970	19.70%	4.71	8.72	0.542	9.31	0.649
ETS6-1960	19.60%	4.68	8.71	0.540	9.30	0.647

\* Under standard test condition: 1000W / m², AM 1.5, 25  $^\circ\!\mathrm{C}$ 

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

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

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

>1.2N/mm for 70% measured points

These results can be obtained by soldering at 250-350  $^\circ\!\mathrm{C}$  with Eton regular flux, ribbon (Pb free), soldering & pulling machine.

Results may vary by different flux, ribbons, soldering method used.

## Spectrum Response (SR)





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#### 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.

- a. Avoid handling with hands without plastic gloves
- b. Avoid careless and violent handling since this causes damage or cracks
- c. Contacting with corrosive chemicals or gases
- d. 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

ET0002 E-TON poster 90(w)x45(h)cm or 60(w)x30(h)cm