D6V

Mono-like Multi-crystalline Photovoltaic Cell

A full range of cell processing, including

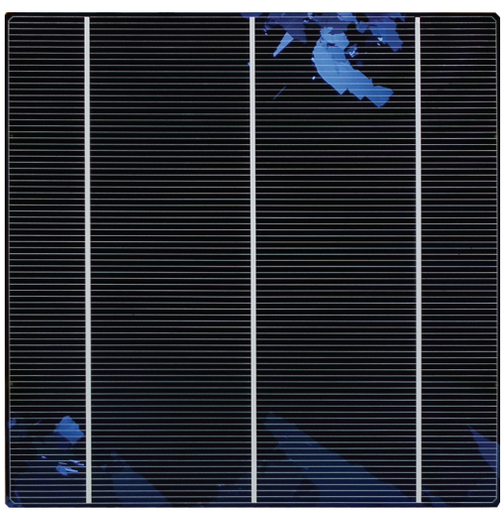
- Mono-like multi-crystalline Silicon-based cell
- 6 inch cell size with 3 busbars
- Wafer thickness of 180 to 200 µm

High efficiency and thin wafer handling capabilities

- Dynamic optimized setting system
- Soft-touch wafer handling system

Robust-in-house automation systems

- Improved quality, efficiency and yield increase
- Highly automated wafer transport system



About DelSolar

Established as a subsidiary of Delta Electronics, Inc., the world's number one switching power supplies provider, DelSolar is dedicated to the research, development, and production of high-quality solar cells, modules, and photovoltaic (PV) systems. DelSolar strives to become the world's leading solar supplier through continuous innovation, outstanding production processes, high yield rates, and world-class product efficiency. Under its parent company's leadership, DelSolar is committed to providing clean and effective solar energy for a sustainable world.

More Information, please visit us at: **www.delsolarpv.com**

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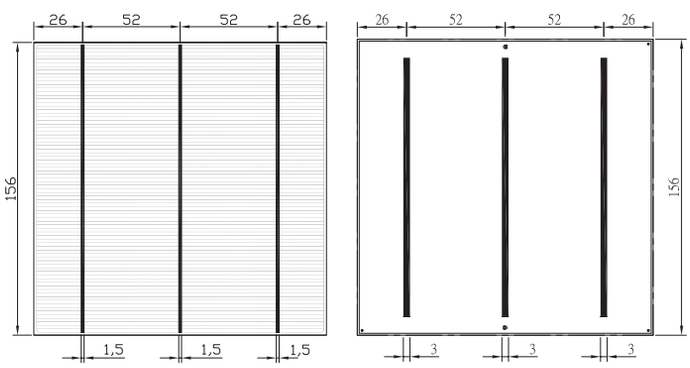
DelSolar

Mechanical Specification

Item	Spec
Product	Mono-like multi-crystalline silicon solar cell
Dimension	156 mm x 156 mm ± 0.5 mm
Thickness	200 µm ± 30 µm
Front	1.5 ± 0.1 mm busbar (silver) Silicon nitride antireflection coating
Back	3.0 mm continuous soldering pads (silver) Back surface field (aluminum)

Dimension

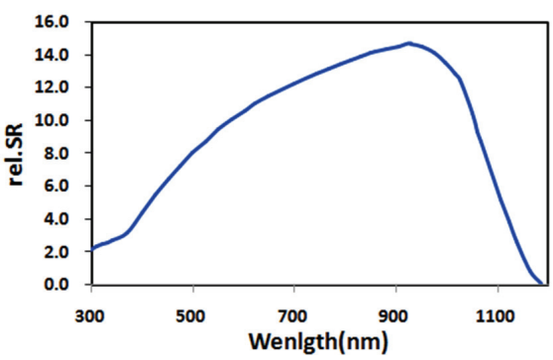


Electrical Properties

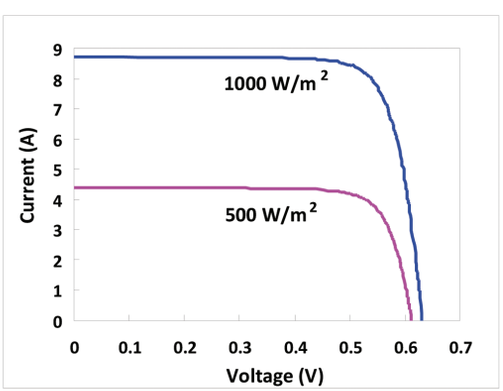
Efficiency (%)	P_{mpp} (W)	V_{oc} (V)	I_{sc} (A)	I_{min} (A)
19.0	4.62	0.638	9.11	8.82
18.8	4.58	0.636	9.06	8.78
18.6	4.53	0.634	9.01	8.71
18.4	4.48	0.632	8.96	8.63
18.2	4.43	0.630	8.91	8.58
18.0	4.38	0.628	8.86	8.51
17.8	4.33	0.626	8.81	8.43
17.6	4.28	0.624	8.77	8.35
17.4	4.23	0.621	8.72	8.27
17.2	4.19	0.619	8.66	8.17
17.0	4.14	0.617	8.61	8.07

* Testing conditions: 1000 W/m², AM 1.5, 25 °C, Tolerance: Efficiency ± 0.2% abs., P_{mpp} ±1.5% rel.
* I_{min} : at 0.515 V

Spectral Response



I-V Curves



Light Intensity Dependence

Intensity W/m²	V_{mpp}*	I_{mpp}*
1000	1.00	1.00
800	0.99	0.80
600	0.99	0.59
400	0.97	0.39
200	0.94	0.19

* Ratio of V_{mpp}/I_{mpp} at reduced intensity to V_{mpp}/I_{mpp} at 1000 W/m²

Soldering Ability

Peel Strength: > 1.0 N/mm (Pull soldered ribbon from busbar in 5 mm/s of 180°)

Temperature Coefficients

Item	Spec
Current	0.05 %/°K
Voltage	-0.34 %/°K
Power	-0.33 %/°K