

## D6P

### About DeSolar

Founded in 1971, the Delta Group is a global leader in power management and renewable energy solutions. DeSolar, as a subsidiary of Delta Group/Electronics, has become a leading solar cell and module provider with proven process innovation, state-of-art manufacturing technology, world-class cell efficiency, and record productivity yields since its inception in 2004.

#### A full range of cell processing, including

- Mono- and Multi-crystalline Silicon-based cells
- 6 inch cell size with 2 busbars and 3 busbars
- Wafer thickness of 180 to 200  $\mu\text{m}$

#### 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



### Contact DeSolar

[sales@delsolarpv.com](mailto:sales@delsolarpv.com)  
[solar.sales@delta-corp.com](mailto:solar.sales@delta-corp.com)

#### Worldwide Headquarters

DeSolar Co., Ltd.  
No. 2, R&D 2nd Road, Science-Based Industrial Park,  
Hsinchu, Taiwan 30076  
Tel +886-3-578-1999  
[www.delsolarpv.com](http://www.delsolarpv.com)

#### US contact

Delta Products Corp.  
4405 Cushing Parkway Fremont, CA 94538  
Tel +1-888-880-8868  
[www.deltaww.com](http://www.deltaww.com)

## MECHANICAL SPECIFICATION

Product	Multicrystalline silicon solar cell
Dimension	156 mm x 156 mm ± 0.5 mm
Thickness	200 μm ± 30 μm, 180 μm ± 30 μm
Front	2.0 ± 0.1 mm busbar (silver) Silicon nitride antireflection coating
Back	3.0 mm continuous soldering pads (silver/ aluminum) Back surface field (aluminum)

## ELECTRICAL PROPERTIES

Series	Efficiency	P <sub>mpp</sub>	V <sub>oc</sub>	I <sub>sc</sub>
H	17.0 %	4.14 W	0.625 V	8.45 A
	16.8 %	4.09 W	0.623 V	8.40 A
	16.6 %	4.04 W	0.621 V	8.35 A
	16.4 %	3.99 W	0.619 V	8.30 A
	16.2 %	3.94 W	0.617 V	8.25 A
	16.0 %	3.89 W	0.614 V	8.20 A
G	15.8 %	3.85 W	0.612 V	8.14 A
	15.6 %	3.80 W	0.609 V	8.08 A
	15.4 %	3.75 W	0.607 V	8.02 A
	15.2 %	3.70 W	0.604 V	7.94 A
	15.0 %	3.65 W	0.601 V	7.86 A

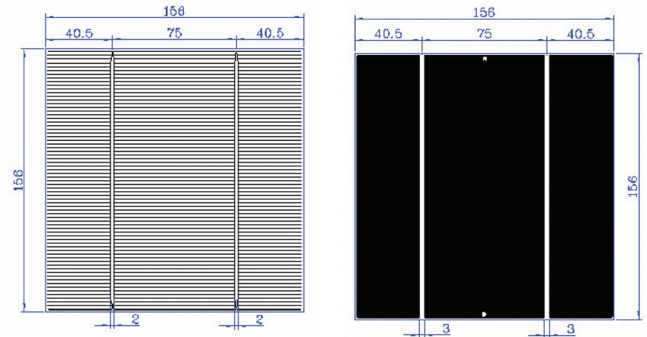
\* Testing conditions: 1000 W/m<sup>2</sup>, AM 1.5, 25 °C, Tolerance: Efficiency ± 0.2% abs., P<sub>mpp</sub> ± 1.5% rel.

## LIGHT INTENSITY DEPENDENCE

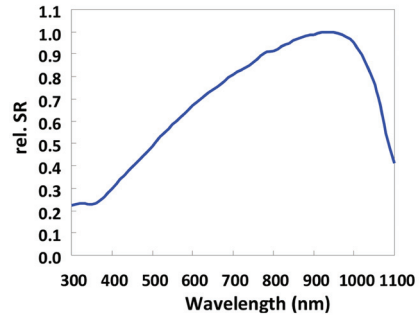
Intensity W/m <sup>2</sup>	V <sub>mpp</sub> *	I <sub>mpp</sub> *
1000	1	1
800	0.99	0.80
600	0.99	0.60
400	0.97	0.40
200	0.94	0.20

\* Ratio of V<sub>mpp</sub>/I<sub>mpp</sub> at reduced intensity to V<sub>mpp</sub>/I<sub>mpp</sub> at 1000 W/m<sup>2</sup>

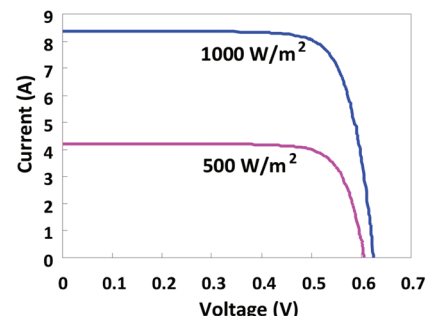
## DIMENSION



## SPECTRAL RESPONSE



## I-V CURVES



## TEMPERATURE COEFFICIENTS

Current	4.46 mA/ °K
Voltage	-2.13mV/ °K
Power	-0.44%/ °K

## SOLDERING ABILITY

Peel Strength: > 1.0 N/mm (Pull soldered ribbon from busbar in 4 mm/s of 90°)