

M6B3 6" MULTICRYSTALLINE SILICON SOLAR CELL

User Friendly

- Enjoy higher cell-to-module transmission ratio of power
- Generate more output power in low light or high temperature
- Experience lower breakage rate during in-line process of module
- Render better uniformity with two classified colors
- Care for our environment. All products conform to RoHS

Quality Policy

- Examine the reliability of raw materials
- Screen for efficiency, electrical properties, and appearance of solar cell
- Provide on-site service with experienced engineer
- Evaluate and take action for customers' valued feedback
- Obtain ISO 9001 & 14001 certificate

Mechanical Specification

Dimension

156.0 mm x 156.0 mm ± 0.5 mm

Thickness (Si)

180 μm ± 20 μm / 200 μm ± 20 μm

Front Side (-)

- Silicon nitride anti-reflection coating
- Width of bus bar: 1.3 mm ± 0.1 mm
- Distance between two bus bars: 52.0 mm

Back Side (+)

- Aluminum back surface field
- Continuous soldering pads: 2.5 mm ± 0.1 mm
- Distance between two bus bars: 52.0 mm

Electrical Characteristics under STC											
Efficiency	Eff (%)	18.20	18.00	17.80	17.60	17.40	17.20	17.00	16.80	16.60	16.40
Power	Pmpp(W)	4.43	4.38	4.33	4.28	4.23	4.19	4.14	4.09	4.04	3.99
Short Circuit Current	Isc(A)	8.75	8.71	8.68	8.64	8.60	8.56	8.52	8.48	8.42	8.36
Open Circuit Voltage	Voc(V)	0.636	0.634	0.631	0.629	0.627	0.624	0.621	0.618	0.617	0.609
Maximum Power Current	Imp(A)	8.26	8.22	8.19	8.15	8.11	8.07	8.02	7.99	7.93	7.90
Maximum Power Voltage	Vmpp(V)	0.536	0.533	0.531	0.528	0.525	0.522	0.519	0.515	0.514	0.508

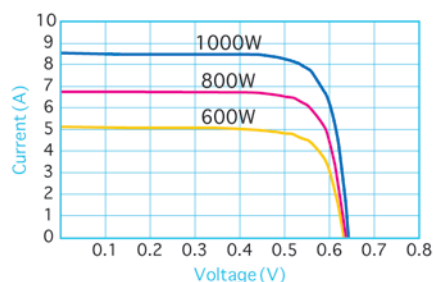
Note: Standard Test Conditions: 1000W/m², 25°C, AM1.5; Tolerance of Measured Efficiency: ±0.1% abs

Temperature Coefficients		
Power	γ(Pmax)	-0.39%/ °C
Current	α(Isc)	0.05%/ °C
Voltage	β(Voc)	-0.31%/ °C

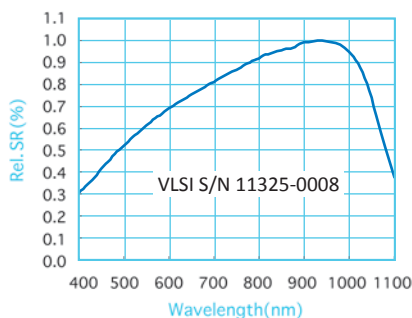
Solder Capability
Minimum Peeling Strength: >1.5 N/mm
Soldering Condition: Ulbrich ribbon 1.5mm x 0.16mm & Kester 955 flux (Single side 20um of Sn62 / Pb36 / Ag2 coating)

Light Intensity Dependence		
Intensity (W/m ²)	Vmpp	Imp
1000	1	1
800	0.99	0.8
600	0.99	0.6
400	0.97	0.4
200	0.93	0.2

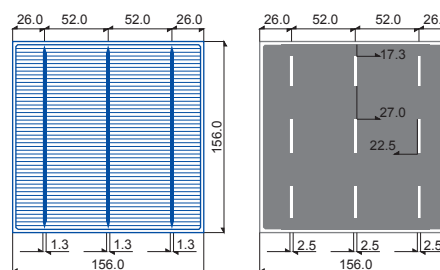
I-V curve



Spectral Response



Technical Drawing



This specification is subject to change without further notice