

S-156-3 ver. B

6" Monocrystalline Solar Cell

Features

- High-efficiency solar cells with an isotropically etched surface
- Silicon nitride anti-reflection coating
- Silver front contact bars and full surface aluminum back contact field

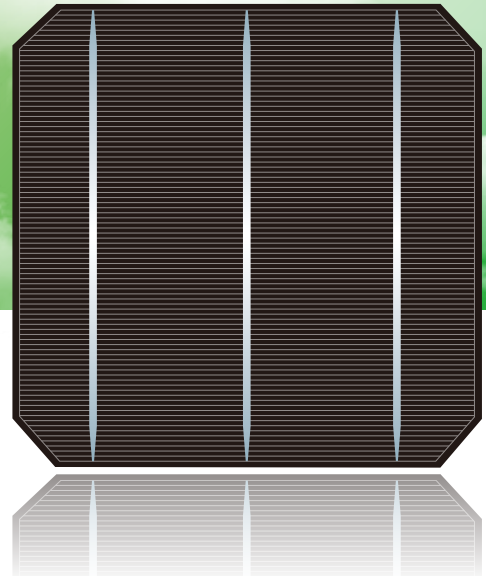
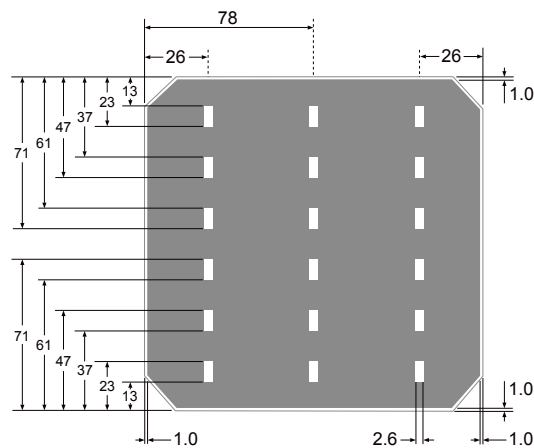
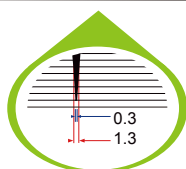
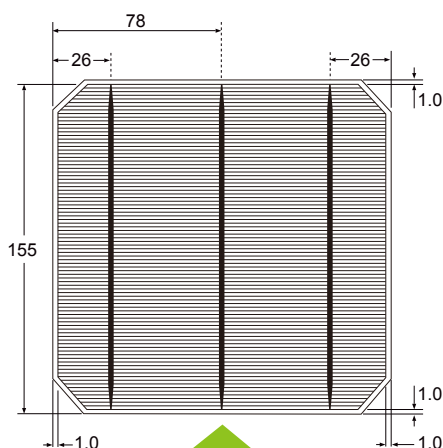
Performance and Quality

- Proper handling from incoming inspection through production, outgoing inspection and packaging
- 100% checked for reverse current and visual appearance
- Calibrated against Fraunhofer ISE
- RoHS compliance
- **100% PID Resistance**

Packaging

- Minimize the risk of broken cells with special design
- Label with product information

Cell Layout



Physical Characteristics

Dimension	156 mm x 156 mm $\pm$ 0.5 mm
Thickness (si)	180 μ m - 20 / + 30 μ m 200 μ m $\pm$ 30 μ m
Front Side (-)	Silicon nitride anti-reflection coating 1.3 mm silver busbar
Back Side (+)	Full surface aluminum back surface field 2.6 mm (silver) discontinuous soldering pads



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Electrical Characteristics

Class M-156	Efficiency Range (%)	Rated Power (Wp)	*Maximum Power Current (A)	*Short Circuit Current (A)	*Maximum Power Voltage (V)	*Open Circuit Voltage (V)
188	18.8~18.9	4.484	8.491	9.080	0.530	0.629
189	18.9~19.0	4.508	8.514	9.092	0.531	0.630
190	19.0~19.1	4.531	8.536	9.105	0.533	0.632
191	19.1~19.2	4.555	8.569	9.125	0.533	0.634
192	19.2~19.3	4.579	8.603	9.144	0.534	0.636
193	19.3~19.4	4.603	8.621	9.148	0.535	0.637
194	19.4~19.5	4.627	8.635	9.158	0.537	0.638
195	19.5~19.6	4.651	8.648	9.166	0.538	0.639
196	19.6~19.7	4.675	8.655	9.176	0.541	0.640
197	19.7~19.8	4.698	8.680	9.186	0.542	0.640

Test condition: 1000 W / m², AM 1.5, 25 °C

Power measuring tolerance: ± 1.5 % rel.

*Data & drawing for reference only.

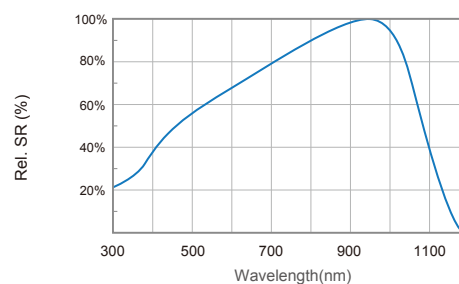
Temperature coefficients

Current (%/K)	0.0447
Voltage (%/K)	-0.3307
Power (%/K)	-0.414

Light Intensity Dependence

Intensity [W/m ²]	V _{mpp}	I _{mpp}
1000	1.000	1.000
800	0.998	0.800
600	0.992	0.601
400	0.983	0.399
200	0.956	0.198

Spectral Response



IV-Curve

