

M-156-2 | 6" Multicrystalline Solar Cell

Features

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

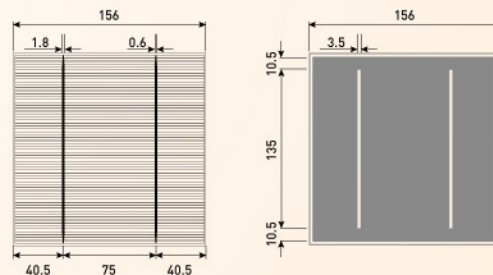
Performance and Quality

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

Packaging

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

Cell Layout



Physical Characteristics

Dimension	156 mm x 156 mm ± 0.5 mm
Thickness	180 μm - 20 / + 30 μm 210 μm ± 30 μm
Front Side (-)	Silicon nitride anti-reflection coating 1.8 mm silver busbar
Back Side (+)	Full surface aluminum back surface field 3.5 mm (silver) continuous soldering pads

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Electrical Characteristics

Class	Efficiency Range (%)	Rated Power (Wp)	*Maximum Power Current (A)	*Short Circuit Current (A)	*Maximum Power Voltage (V)	*Open Circuit Voltage (V)
151	15.0~15.2	3.675	7.436	7.908	0.496	0.600
153	15.2~15.4	3.723	7.492	7.961	0.499	0.604
155	15.4~15.6	3.772	7.546	8.017	0.500	0.605
156	15.6~15.7	3.796	7.593	8.067	0.502	0.607
157	15.7~15.8	3.821	7.633	8.115	0.502	0.608
158	15.8~15.9	3.845	7.654	8.138	0.504	0.609
159	15.9~16.0	3.869	7.692	8.175	0.505	0.609
160	16.0~16.1	3.894	7.724	8.219	0.506	0.611
161	16.1~16.2	3.918	7.758	8.249	0.507	0.611
162	16.2~16.3	3.942	7.777	8.260	0.509	0.613
163	16.3~16.4	3.967	7.815	8.299	0.509	0.614
164	16.4~16.5	3.991	7.849	8.333	0.510	0.615
165	16.5~16.6	4.015	7.875	8.358	0.512	0.616
166	16.6~16.7	4.040	7.901	8.386	0.513	0.618
167	16.7~16.8	4.064	7.943	8.425	0.515	0.620
168	16.8~16.9	4.088	7.976	8.457	0.517	0.622
169	16.9~17.0	4.113	8.000	8.480	0.519	0.624

Test condition: 1000 W / m², AM 1.5, 25 °C Power measuring tolerance: ± 1.5 % rel. *Data & drawing for reference only.

Temperature coefficients

Current (mA/K)	4.71
Voltage (mV/K)	-2.02
Power (%/K)	-0.41

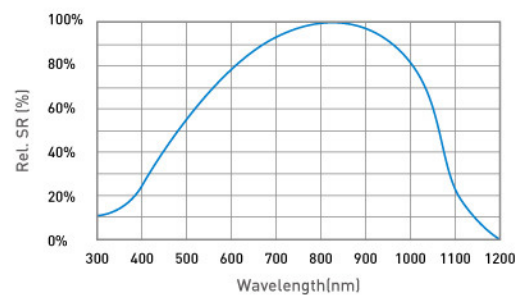
Solderability

Ribbon	Sn - Pb - Ag	62 % - 36 % - 2 %
Flux	Kester	955
Soldering Temp.	Preheating Temp.	180 ~ 230°C
	Heating Temp.	180 ~ 230°C
Condition	Heating duration	3 Sec
	Applied pressure	170 ~ 200 g

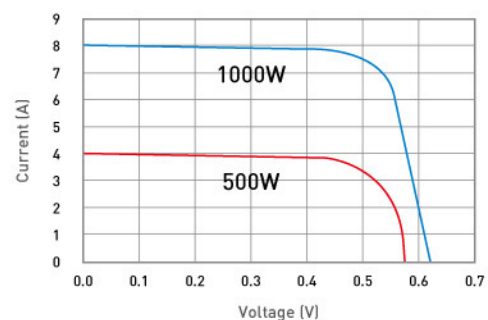
Light Intensity Dependence

Intensity [W/m ²]	V _{mp}	I _{mp}
1000	1.000	1.000
800	0.998	0.799
600	0.991	0.599
400	0.981	0.397
200	0.952	0.196

Spectral Response



IV-Curve



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