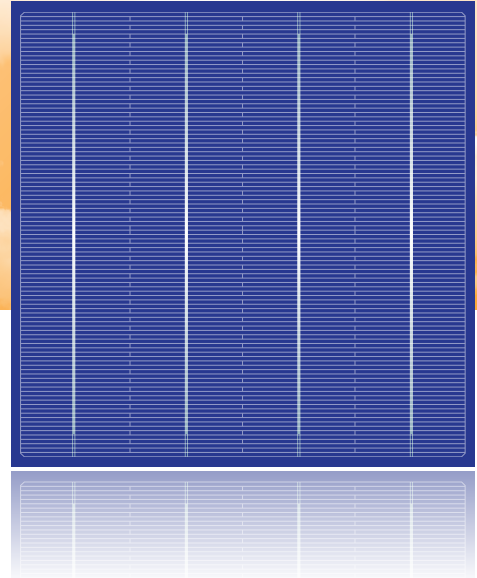


M-156-4 ver. C

6" Multicrystalline 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

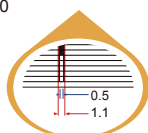
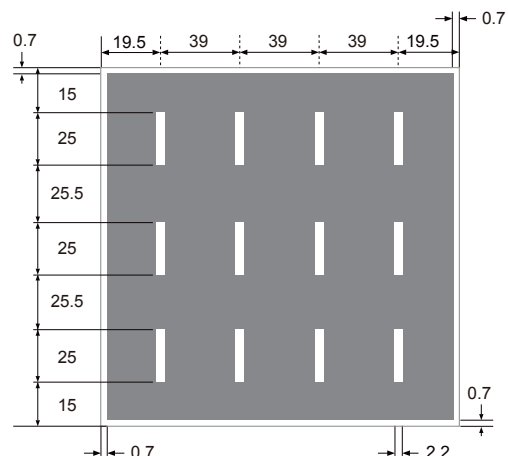
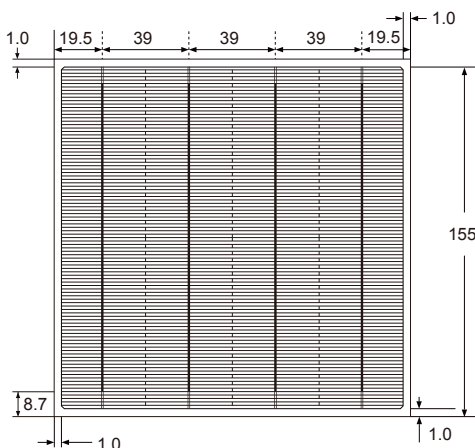
Performance and Quality

- 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 ± 0.5 mm
Thickness (si)	180 μm - 20 / + 30 μm 200 μm ± 30 μm
Front Side (-)	Silicon nitride anti-reflection coating 1.1 mm silver busbar
Back Side (+)	Full surface aluminum back surface field 2.2 mm (silver) discontinuous soldering pads



M-156-4 ver. C / 6" Multicrystalline Solar Cell

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)
170	17.0~17.1	4.137	8.039	8.511	0.518	0.617
171	17.1~17.2	4.161	8.061	8.534	0.520	0.618
172	17.2~17.3	4.186	8.082	8.557	0.521	0.619
173	17.3~17.4	4.210	8.104	8.581	0.523	0.621
174	17.4~17.5	4.234	8.126	8.604	0.524	0.622
175	17.5~17.6	4.259	8.148	8.628	0.525	0.623
176	17.6~17.7	4.283	8.169	8.651	0.527	0.624
177	17.7~17.8	4.307	8.191	8.674	0.528	0.626
178	17.8~17.9	4.332	8.213	8.698	0.530	0.627
179	17.9~18.0	4.356	8.235	8.721	0.531	0.628
180	18.0~18.1	4.380	8.256	8.745	0.532	0.630
181	18.1~18.2	4.405	8.278	8.768	0.534	0.631
182	18.2~18.3	4.429	8.301	8.794	0.535	0.632
183	18.3~18.4	4.453	8.321	8.815	0.537	0.634
184	18.4~18.5	4.478	8.343	8.839	0.538	0.635
185	18.5~18.6	4.502	8.365	8.862	0.539	0.636

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

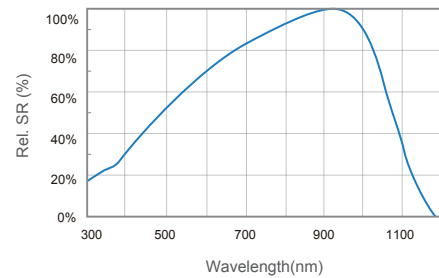
Temperature coefficients

Current (%/K)	0.0527
Voltage (%/K)	-0.3260
Power (%/K)	-0.3970

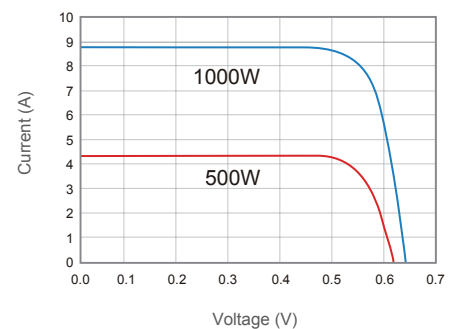
Light Intensity Dependence

Intensity [W/m ²]	V _{mpp}	I _{mpp}
1000	1.000	1.000
900	0.996	0.899
500	0.975	0.497
300	0.951	0.294
200	0.931	0.197

Spectral Response



IV-Curve



Solartech Energy Corp.

Taipei Office

8F., No.760, Sec. 4, Bade Rd., Songshan Dist., Taipei 105, Taiwan

Tel: +886-2-21712388 Fax: +886-2-21712387 E-mail: sales@solartech-energy.com

Hsinchu HQ & Fab

No. 16, Guangfu N. Rd., Hsinchu Industrial Park, Hukou, Hsinchu 303, Taiwan

Tel: +886-3-5276888 Fax: +886-3-5246866