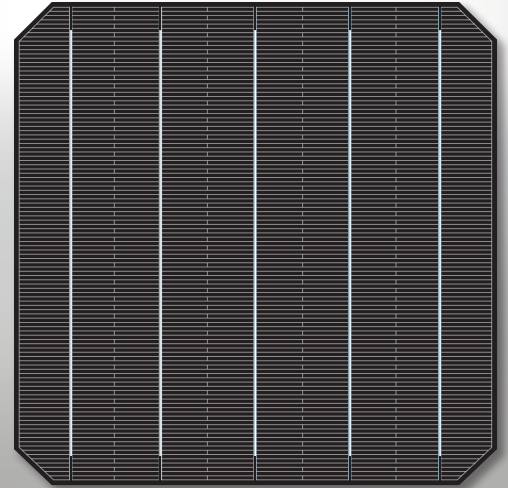


Standard Cell

S-156-5 ver.A

Monocrystalline Solar Cell



Features

- High-efficiency solar cells with an anisotropically 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

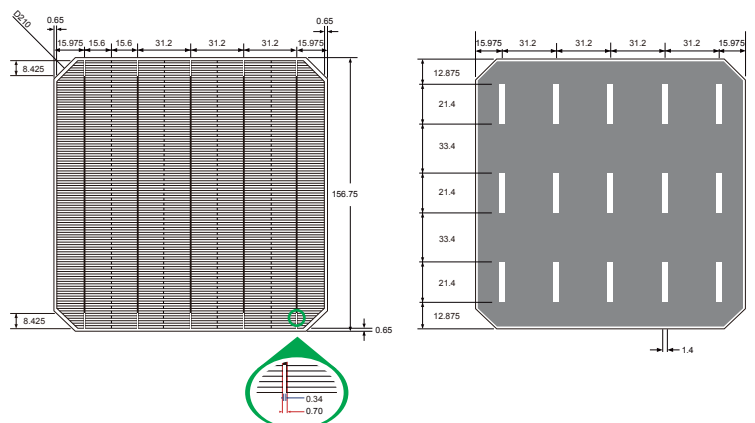
Packaging

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

Physical Characteristics

Dimension	156.75 mm x 156.75 mm \pm 0.25 mm
Diagonal	210 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 0.7 mm silver busbar
Back Side (+)	Full surface aluminum back surface field 1.4 mm (silver) discontinuous soldering pads

Cell Layout



S-156-5 ver.A

Monocrystalline Solar Cell

Electrical Characteristics

Class	Efficiency Range (%)	Rated Power (Wp)	*Maximum Power Current (A)	*Short Circuit Current (A)	*Maximum Power Voltage (V)	*Open Circuit Voltage (V)
194	19.4-19.5	4.740	8.849	9.292	0.537	0.629
195	19.5-19.6	4.767	8.864	9.306	0.539	0.631
196	19.6-19.7	4.789	8.879	9.320	0.541	0.632
197	19.7-19.8	4.813	8.890	9.336	0.543	0.635
198	19.8-19.9	4.838	8.901	9.346	0.545	0.636
199	19.9-20.0	4.862	8.919	9.363	0.547	0.638
200	20.0-20.1	4.886	8.935	9.375	0.548	0.639
201	20.1-20.2	4.911	8.952	9.391	0.549	0.640
202	20.2-20.3	4.935	8.967	9.405	0.551	0.641

Test condition : 1000 W / m², AM 1.5, 25°C Power measuring tolerance: ±1.5% rel.

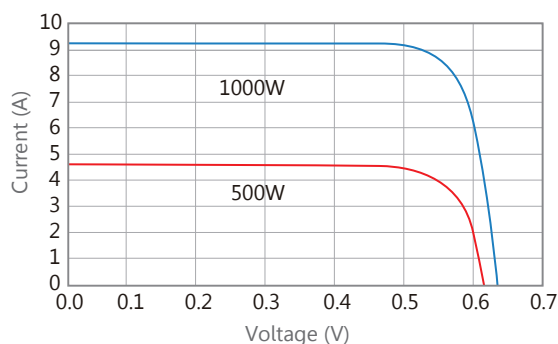
Temperature coefficients

Current (%/K)	0.0454
Voltage (%/K)	-0.3197
Power (%/K)	-0.3960

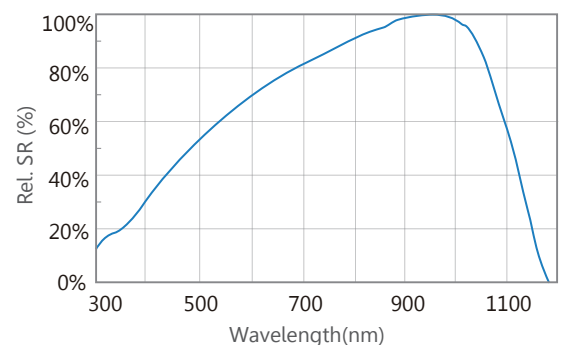
Light Intensity Dependence

Intensity(W/m ²)	Vmpp(%)	Impp(%)
1000	100.0	100.0
900	99.7	89.7
500	97.4	49.7
300	95.0	29.6
200	93.1	19.4

IV-Curve



Spectral Response



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: +886-3-5276866
 Web: www.solartech-energy.com