



### 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

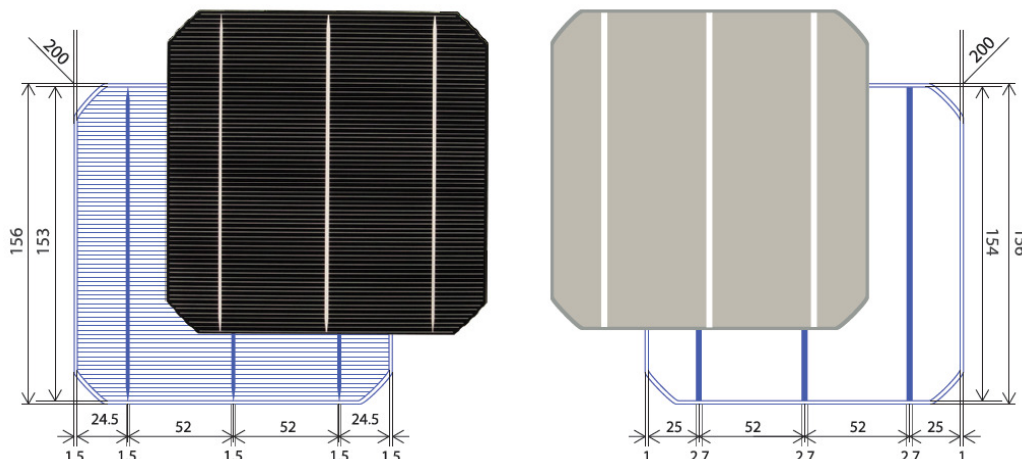
### Packaging

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

### Physical Characteristics

<b>Dimension</b>	156 mm x 156 mm ± 0.5 mm
<b>Diagonal</b>	200 mm ± 0.5 mm (round chamfers)
<b>Thickness</b>	180 μm ± 30 μm 210 μm ± 30 μm
<b>Front Side (-)</b>	Blue anti-reflecting silicon nitride coating 1.5 mm silver busbar
<b>Back Side (+)</b>	Aluminum surface field 2.7 mm (silver) wide soldering pads

### Cell Layout





**Electrical Characteristics**

Class	Efficiency Range (%)	Rated Power (Wp)	*Maximum Power Current (A)	*Short Circuit Current (A)	*Maximum Power Voltage (V)	*Open Circuit Voltage (V)
182	18.2~18.3	4.36	8.197	8.780	0.532	0.633
183	18.3~18.4	4.38	8.227	8.800	0.533	0.634
184	18.4~18.5	4.41	8.256	8.820	0.534	0.635
185	18.5~18.6	4.43	8.285	8.840	0.535	0.636
186	18.6~18.7	4.46	8.314	8.860	0.536	0.637
187	18.7~18.8	4.48	8.343	8.880	0.537	0.638
188	18.8~18.9	4.50	8.372	8.900	0.538	0.639
189	18.9~19.0	4.53	8.401	8.920	0.539	0.640
190	19.0~19.1	4.55	8.430	8.940	0.540	0.641

Test condition: 1000 W / m<sup>2</sup>, AM 1.5, 25 °C

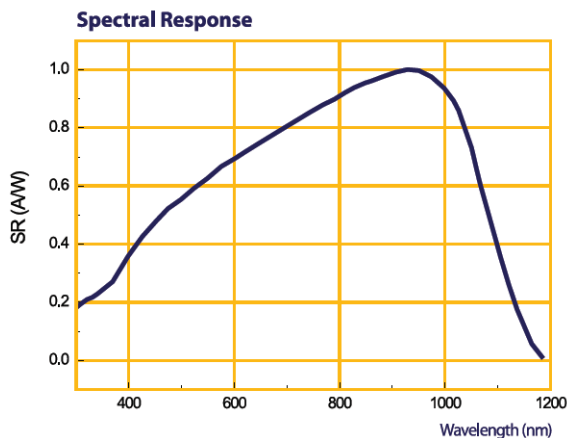
Power measuring tolerance: ± 1.5 % rel.

\*Data & drawing for reference only.

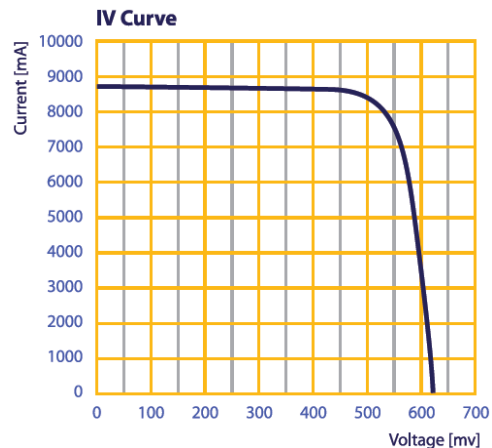
**Temperature coefficients**

Current	0.0484 %/K
Voltage	-0.3251 %/K
Power	-0.4080 %/K

**Spectral Response**



**IV-Curve**



**SOLARTECH ENERGY CORPORATION**

Linko Office and Fab1

No.51, Dinghu 1st Street, 4th Industrial Park,  
Gueishan, Taoyuan 333, Taiwan

Tel: +886 3 3188288 Fax: +886 3 3188266

Hsinchu Fab2

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

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

[www.solartech-energy.com](http://www.solartech-energy.com)

E-mail: [sales@solartech-energy.com](mailto:sales@solartech-energy.com)