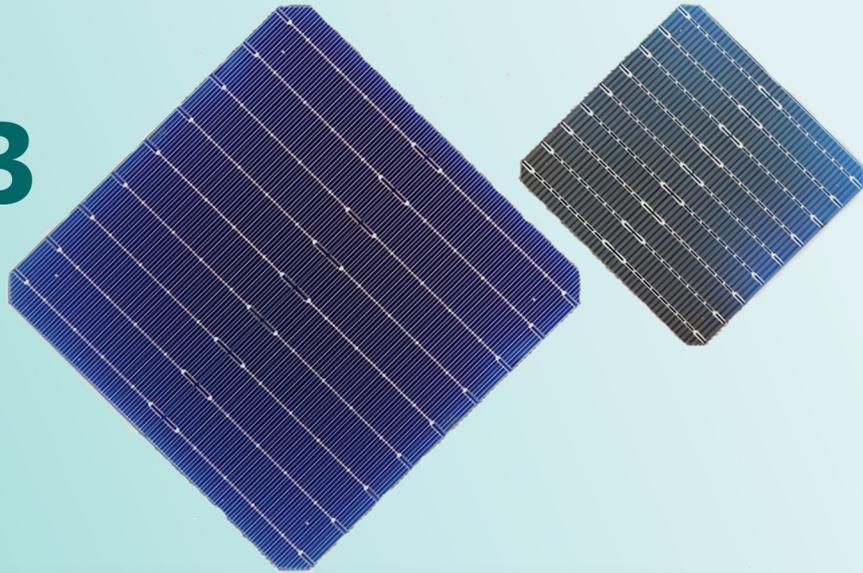




**WISEBIZ
LIMITED**

WB-166-9BB BIF

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**

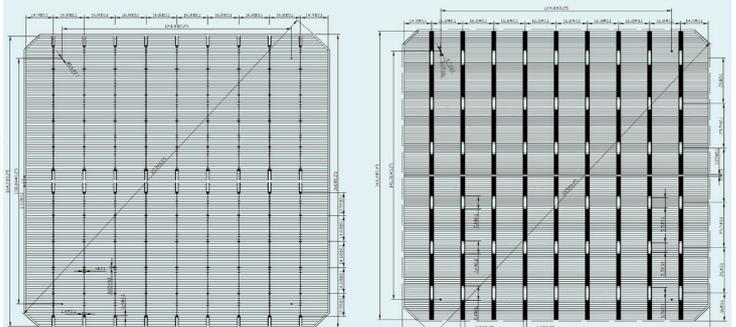
Packaging

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

Physical Characteristics

Dimension	166mm x 166 mm \pm 0.25 mm
Diagonal	223 mm \pm 0.5 mm
Thickness (si)	190 \pm 30 μ m
Front Side (-)	9 busbars(silver), width 0.1 \pm 0.03mm, 124 finger grids, Blue anti-reflecting coating(silicon nitride)
Back Side (+)	Width of back electrode(silver) 1.3 \pm 0.25mm, finger grids(aluminum), dotted laser design

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)
229	22.8-22.9	6.28	10.582	11.113	0.5933	0.6874
228	22.7-22.8	6.25	10.566	11.100	0.5916	0.6859
227	22.6-22.7	6.22	10.540	11.105	0.5905	0.6837
226	22.5-22.6	6.20	10.525	11.090	0.5887	0.6822
225	22.4-22.5	6.17	10.503	11.082	0.5873	0.6811
224	22.3-22.4	6.14	10.486	11.075	0.5856	0.6807
222	22.2-22.3	6.09	10.462	11.046	0.5817	0.6780
220	22.0-22.1	6.03	10.433	11.021	0.5781	0.6774
218	21.8-21.9	5.98	10.409	10.996	0.5742	0.6743

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

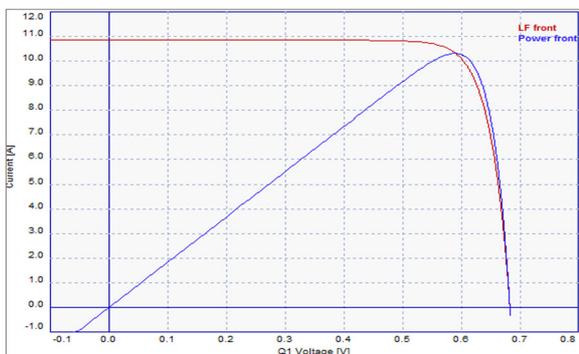
Temperature coefficients

Current (%/K)	+0.07
Voltage (%/K)	-0.36
Power (%/K)	-0.38

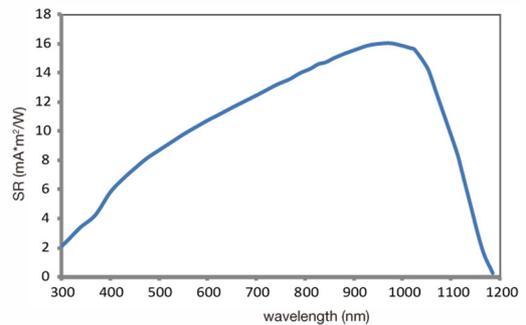
Light Intensity Dependence

Intensity(W/m ²)	V _{mpp} (%)	I _{mpp} (%)
1000	100.0	100.0
900	99.6	90.3
800	99.1	80.3
600	98.8	60.2
400	96.2	40.3

IV-Curve



Spectral Response



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