

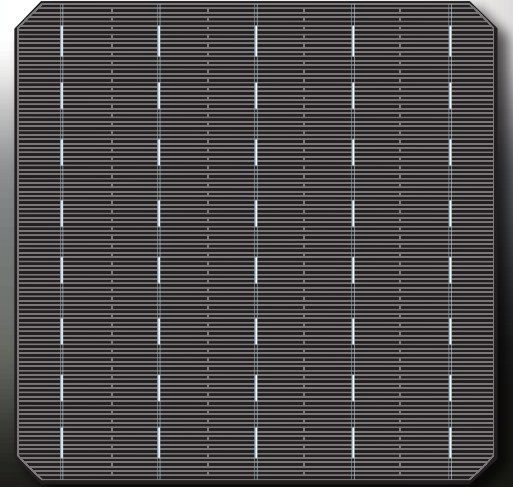
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United Renewable Energy Co., Ltd.

BIFI Series Ultra-Efficient

NS6WL

Mono-Crystalline Solar Cell (Bi-Facial)



Features

- Average cell efficiency (front side) > 21.3%
- Nominal Power equivalent power 330W
- 5% ~ 20% power gain from rear side at suitable installation
- Ideal for flat rooftops, vertical installations, BIPV, carport, floating PV, snow or desert environments

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**

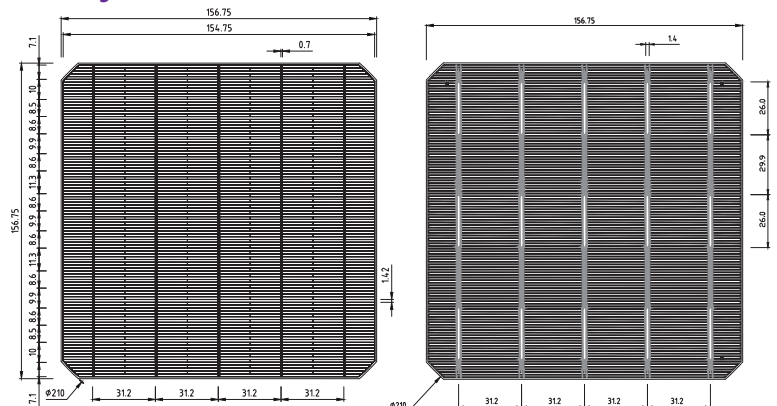
Packaging

- 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
Cell's Thickness (si)	180 μ m \pm 30 μ m
Front Side (-)	Silicon nitride anti-reflection coating 0.7 mm silver busbar
Back Side (+)	Aluminum local back surface field 1.4 mm (silver) discontinuous soldering pads

Cell Layout



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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)
209	20.9-21.0	5.106	9.186	9.724	0.556	0.665
210	21.0-21.1	5.131	9.200	9.734	0.558	0.666
211	21.1-21.2	5.155	9.214	9.745	0.560	0.666
212	21.2-21.3	5.180	9.228	9.756	0.561	0.667
213	21.3-21.4	5.204	9.242	9.767	0.563	0.668
214	21.4-21.5	5.228	9.256	9.778	0.565	0.669
215	21.5-21.6	5.253	9.269	9.788	0.567	0.669
216	21.6-21.7	5.277	9.283	9.799	0.569	0.670
217	21.7-21.8	5.302	9.296	9.810	0.570	0.671
218	21.8-21.9	5.326	9.310	9.821	0.572	0.671

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

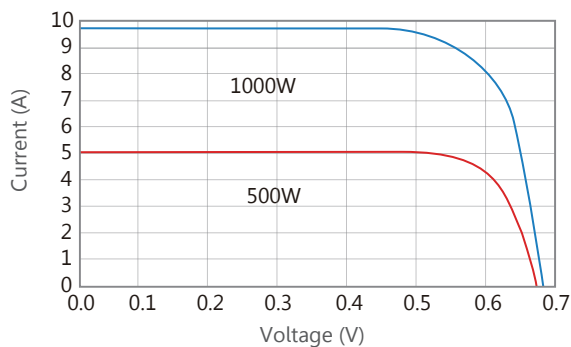
Temperature coefficients

Current (%/K)	0.0413
Voltage (%/K)	-0.2835
Power (%/K)	-0.3673

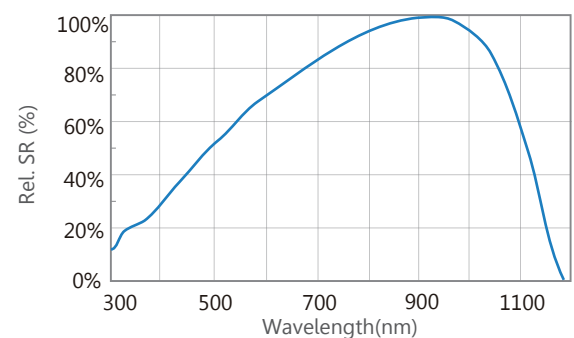
Light Intensity Dependence

Intensity [W/m ²]	V _{mpp}	I _{mpp}
1000	1.000	1.000
900	0.998	0.899
500	0.977	0.497
300	0.955	0.297
200	0.936	0.197

IV-Curve



Spectral Response



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