

ZL-NG1-12B

N-type Mono-crystalline Silicon Solar Cell NG1

Product Characteristics

- ⊙ High conversion efficiency with high reliability
- ⊙ No light-induced degradation
- ⊙ Uniform cell performance with stable process control
- ⊙ Both sides can generate electricity
- ⊙ Low mismatch of cell performance during encapsulation
- ⊙ Excellent power generation performance under low irradiation
- ⊙ Low hot spot effect

Quality Control

- ⊙ Proper inspection through incoming production, outgoing and packaging
- ⊙ Efficiency tested within $\pm 0.1\%$ accuracy
- ⊙ 100% checked for reverse current and visual appearance
- ⊙ Reference cell calibrated from Fraunhofer



Jolywood (Taizhou) Solar Technology Co., Ltd. is the world's leading manufacturer of N-type bifacial solar cells and modules. At present, we have more than 3GW production capacity of N-type monocrystalline bifacial solar cells and modules, and our technology covers the world-leading N-PERT, Passivating Contact, IBC, TBC and other cell and module technology. The parent company, Jolywood (Suzhou) Sunwatt Co., Ltd. (stock code: SZ300393), which is established in 2008 and successfully listed in the GEM in 2014, is the world's largest professional PV backsheet manufacturer, committing to becoming the world's top manufacturer of advanced integrated PV products.

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Product Features >

Dimension	158.75mmx158.75mm±0.25mm , Φ223mm±0.25mm ;
Cell Thickness	170μm±20μm
Front side	0.1 mm wide bus bars, Silicon nitride anti-reflection coating
Back side	0.1 mm wide bus bars, Silicon nitride coating

Temperature Coefficients >

Current Temperature Coefficient	TKcurrent: +0.046%/K
Voltage Temperature Coefficient	TKvoltage: -0.26%/K
Power Temperature Coefficient	TKpower: -0.32%/K

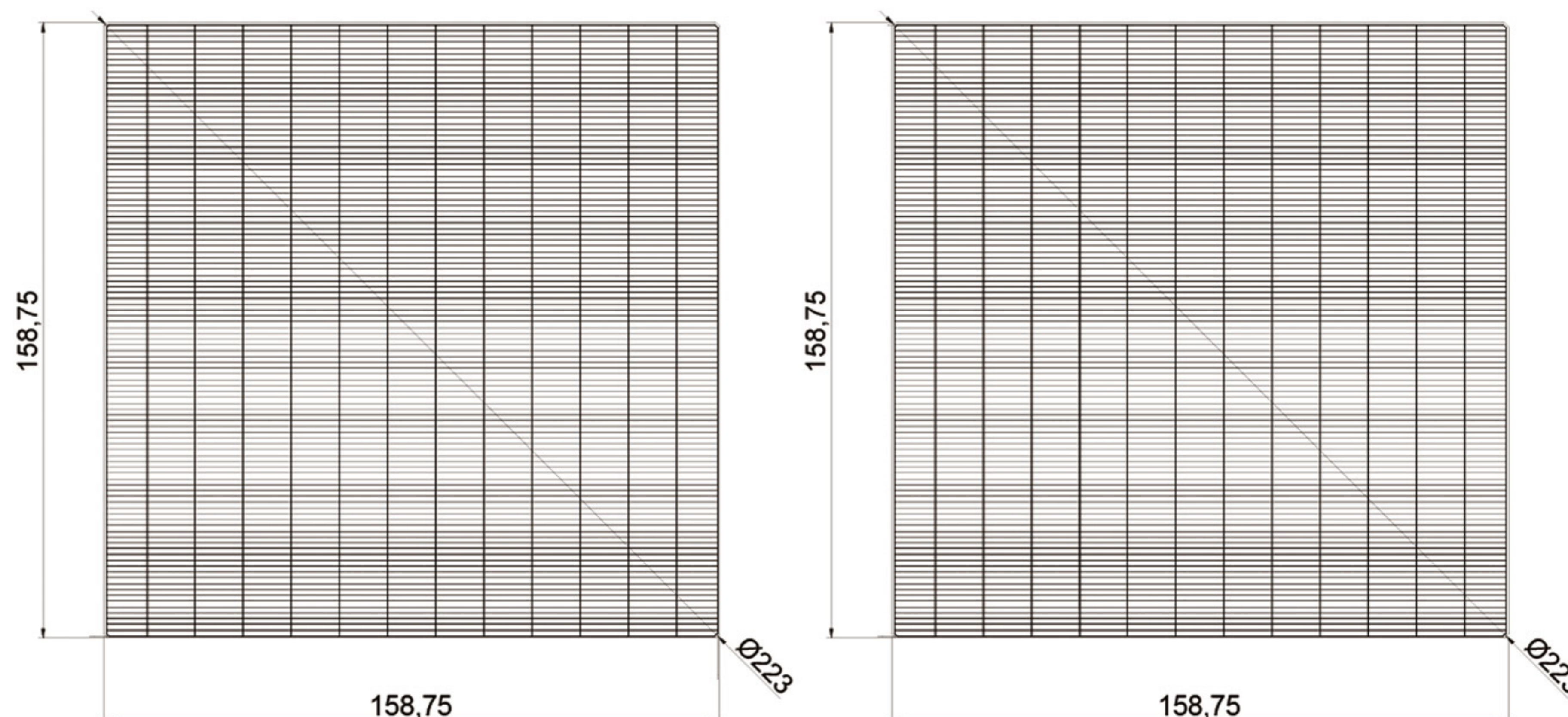
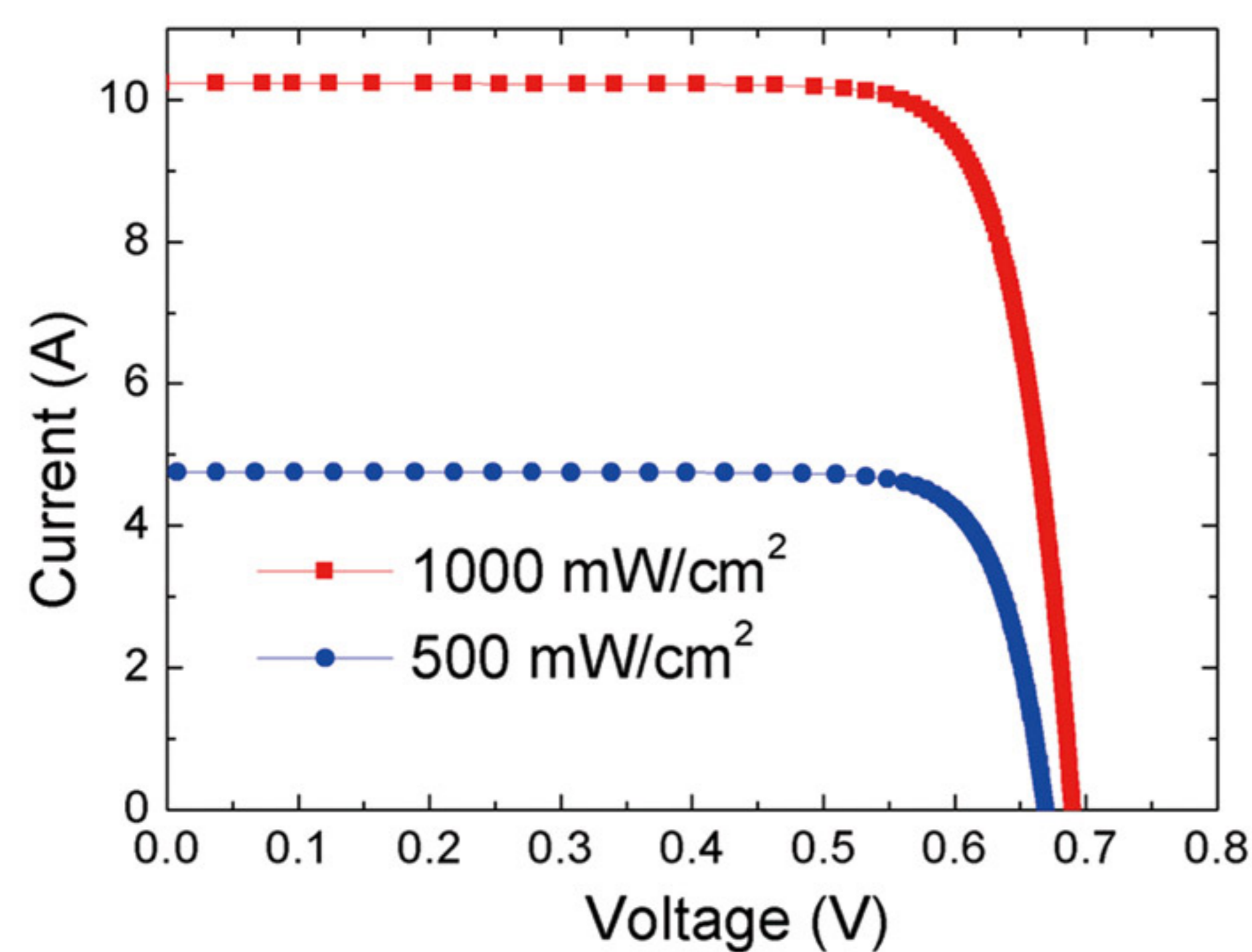
Electric Performance >

Eff(%)	Pmpp(W)	Ump(V)	Imp(A)	Uoc(V)	Isc(A)	FF(%)
23.3%	5.87	0.6027	9.742	0.7028	10.134	82.44
23.2%	5.85	0.6014	9.721	0.7017	10.111	82.40
23.1%	5.82	0.5999	9.703	0.7005	10.089	82.37
23.0%	5.80	0.5989	9.677	0.6992	10.066	82.35
22.9%	5.77	0.5991	9.632	0.6991	10.032	82.28
22.8%	5.75	0.5968	9.628	0.6978	10.011	82.25
22.7%	5.72	0.5940	9.630	0.6966	9.996	82.15
22.6%	5.69	0.5924	9.613	0.6949	9.981	82.11
22.5%	5.67	0.5905	9.601	0.6932	9.966	82.07
22.4%	5.64	0.5891	9.581	0.6914	9.951	82.04
22.3%	5.62	0.5879	9.558	0.6901	9.936	81.95
22.2%	5.59	0.5869	9.532	0.6886	9.915	81.94
22.1%	5.57	0.5850	9.520	0.6866	9.902	81.94
22.0%	5.54	0.5834	9.503	0.6852	9.881	81.88

*Under standard test condition: Irradiance=1000W/ m², Ambient Temperature=25°C, AM=1.5
Specifications and data are for reference only. If there is any change, notice will be given separately

Illustration:22.0% → Actual Range : 22.0%~22.1%

IV Curve >

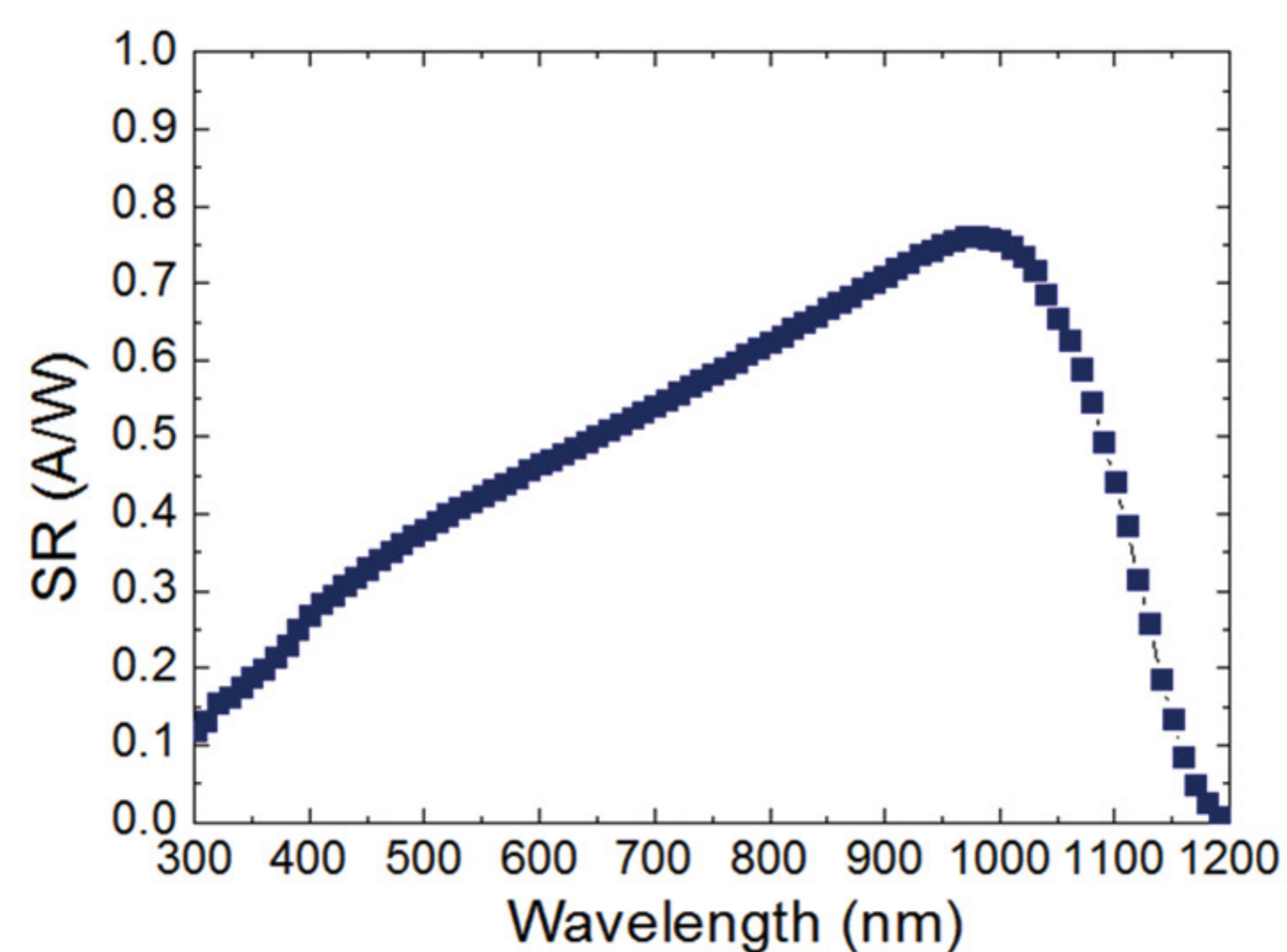


Front side

Rear side

Dimensions (mm)

Spectral Response (SR) >



*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Jolywood (Taizhou) Solar Technology Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

www.jolywood.cn



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