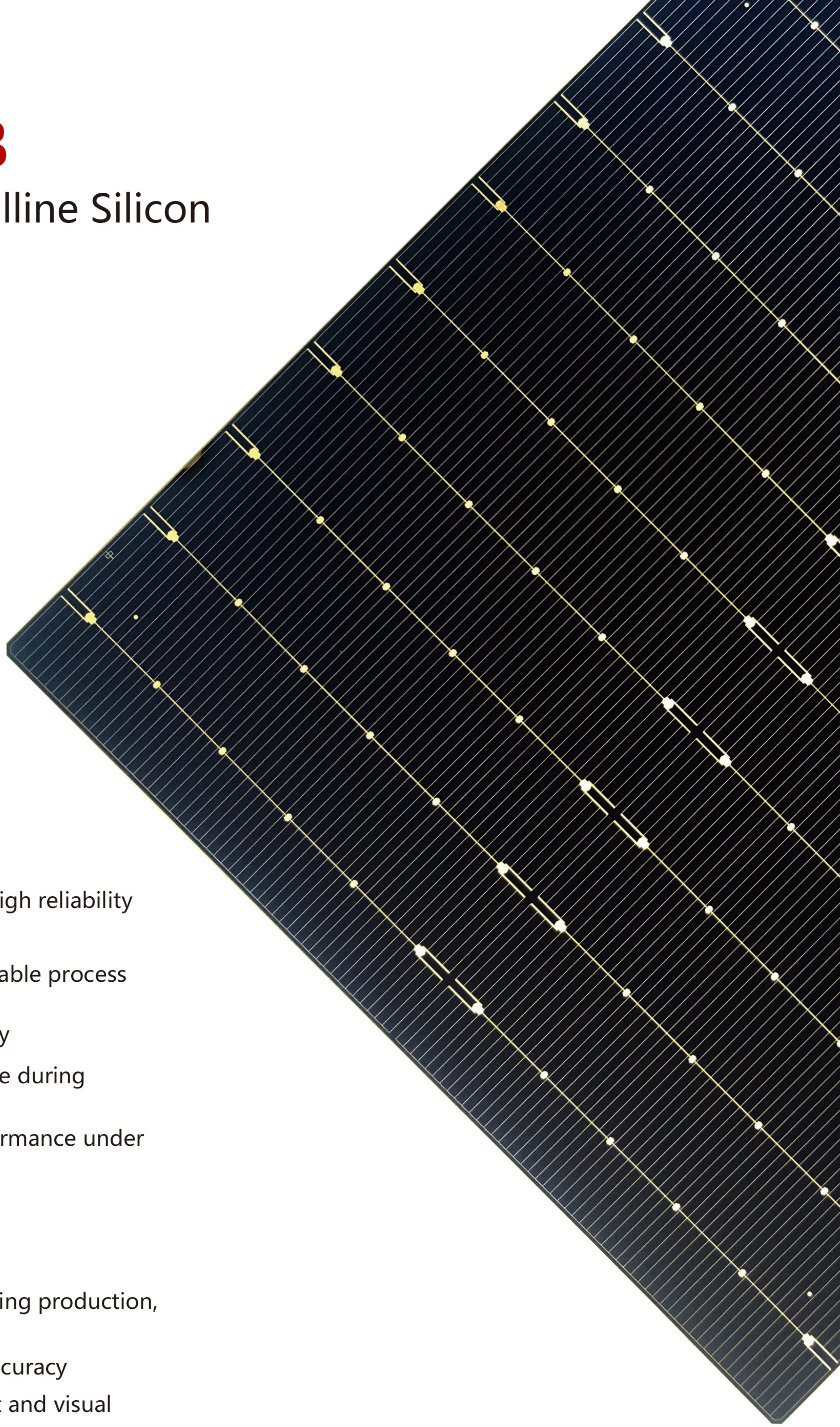


# ZL-NG1-9B

## 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.

# ZL-NG1-9B

# N-type Mono-crystalline Silicon Solar Cell NG1

## 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

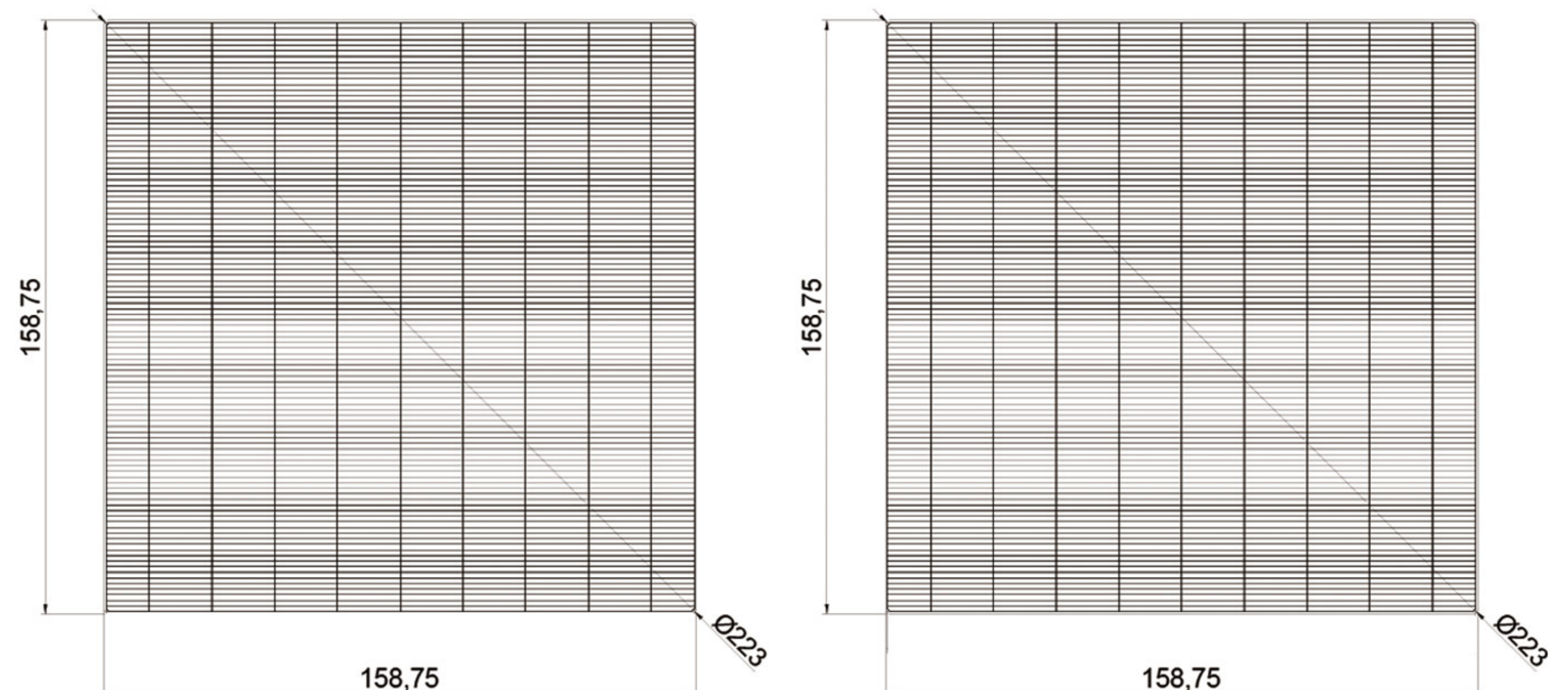
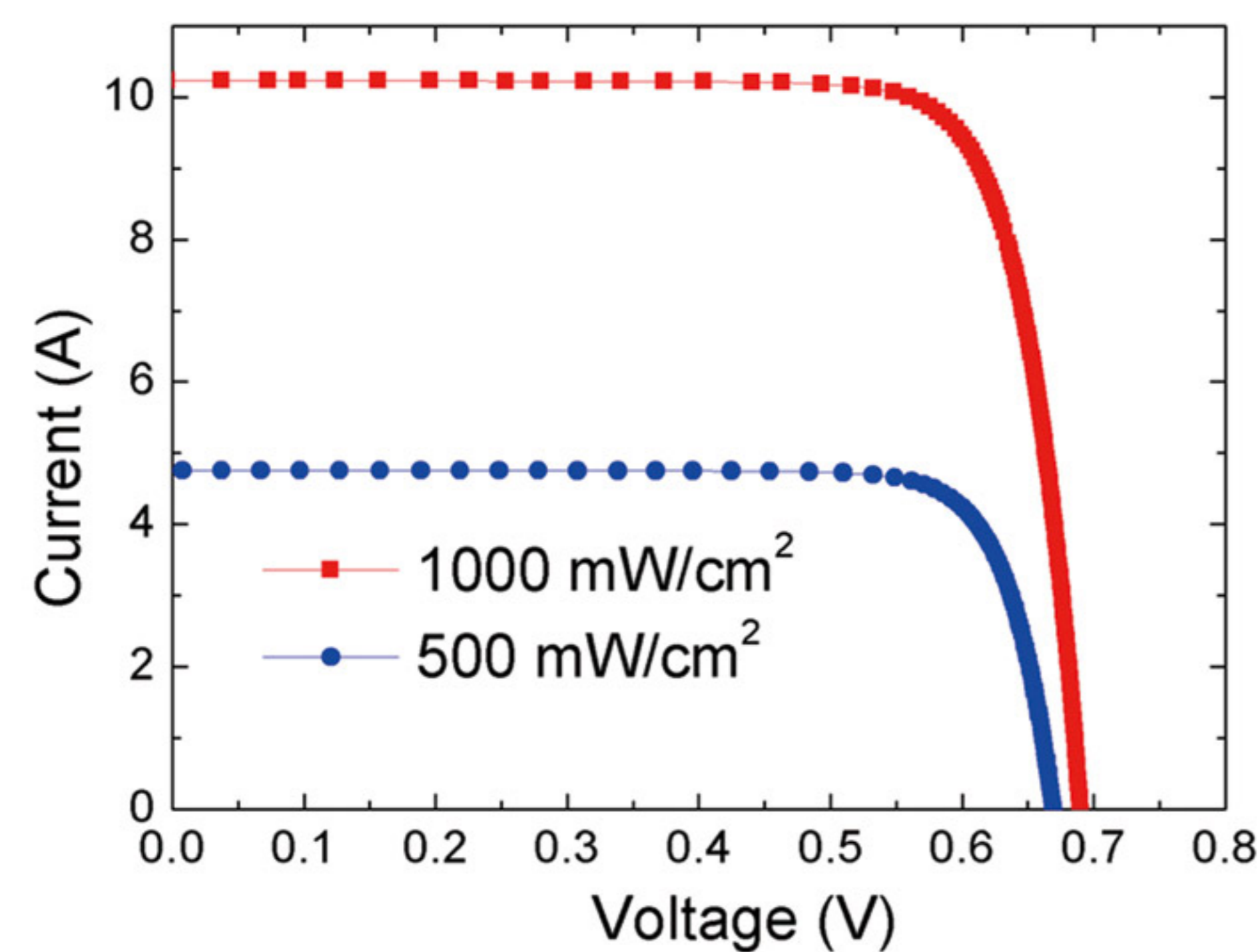
## Electric Performance >

Eff(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
23.3%	5.87	0.6027	9.742	0.7028	10.034	83.26
23.2%	5.85	0.6014	9.721	0.7017	10.011	83.22
23.1%	5.82	0.5999	9.703	0.7005	9.989	83.19
23.0%	5.80	0.5989	9.677	0.6992	9.966	83.18
22.9%	5.77	0.5991	9.632	0.6991	9.932	83.11
22.8%	5.75	0.5968	9.628	0.6978	9.911	83.07
22.7%	5.72	0.5940	9.630	0.6966	9.896	82.98
22.6%	5.69	0.5924	9.613	0.6949	9.881	82.94
22.5%	5.67	0.5905	9.601	0.6932	9.866	82.90
22.4%	5.64	0.5891	9.581	0.6914	9.851	82.87
22.3%	5.62	0.5879	9.558	0.6901	9.836	82.79
22.2%	5.59	0.5869	9.532	0.6886	9.815	82.77
22.1%	5.57	0.5850	9.520	0.6866	9.799	82.77
22.0%	5.54	0.5834	9.503	0.6852	9.781	82.72

\*Under standard test condition: Irradiance=1000W/ m<sup>2</sup>, 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 >

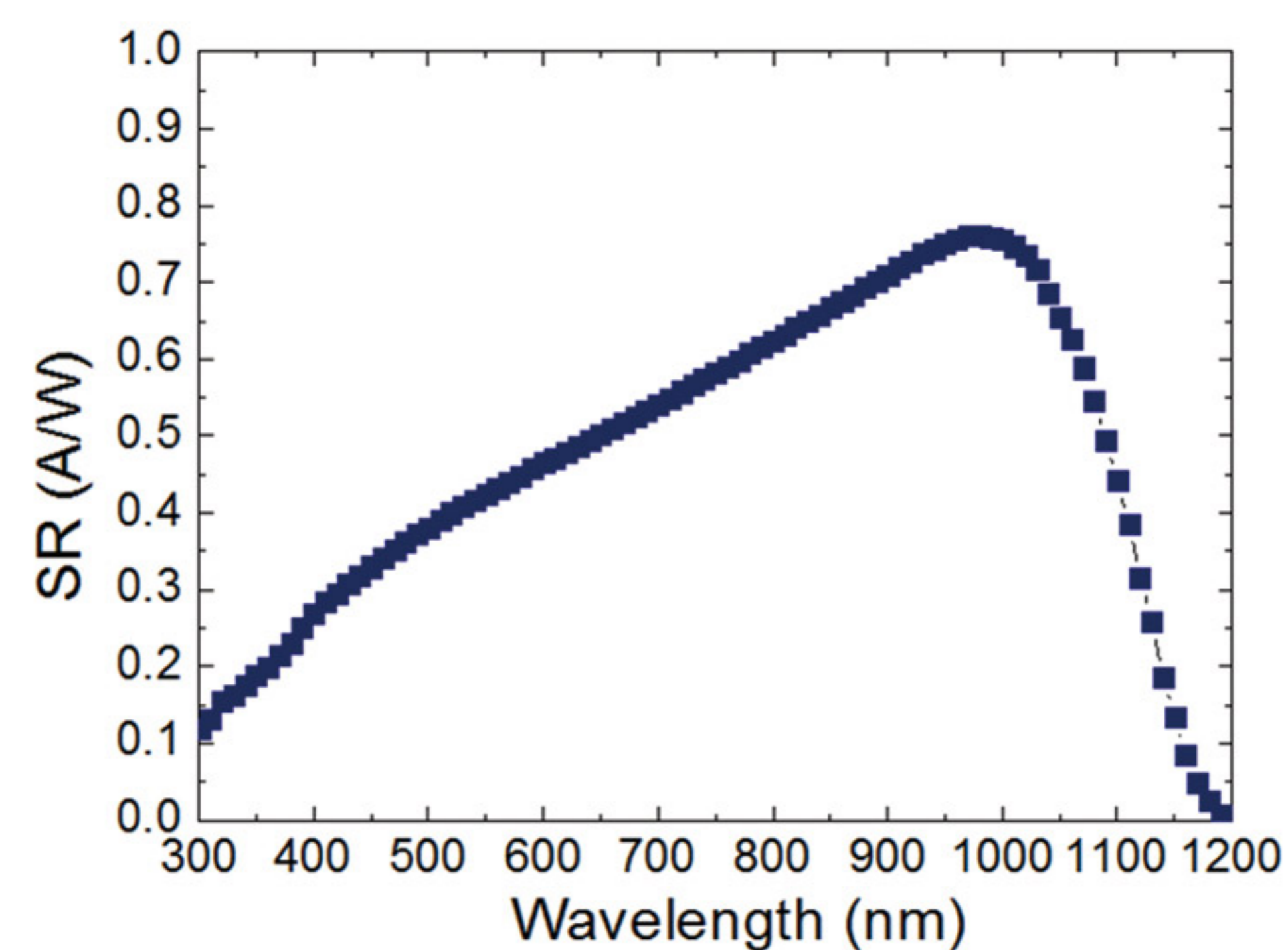


Front side

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.

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