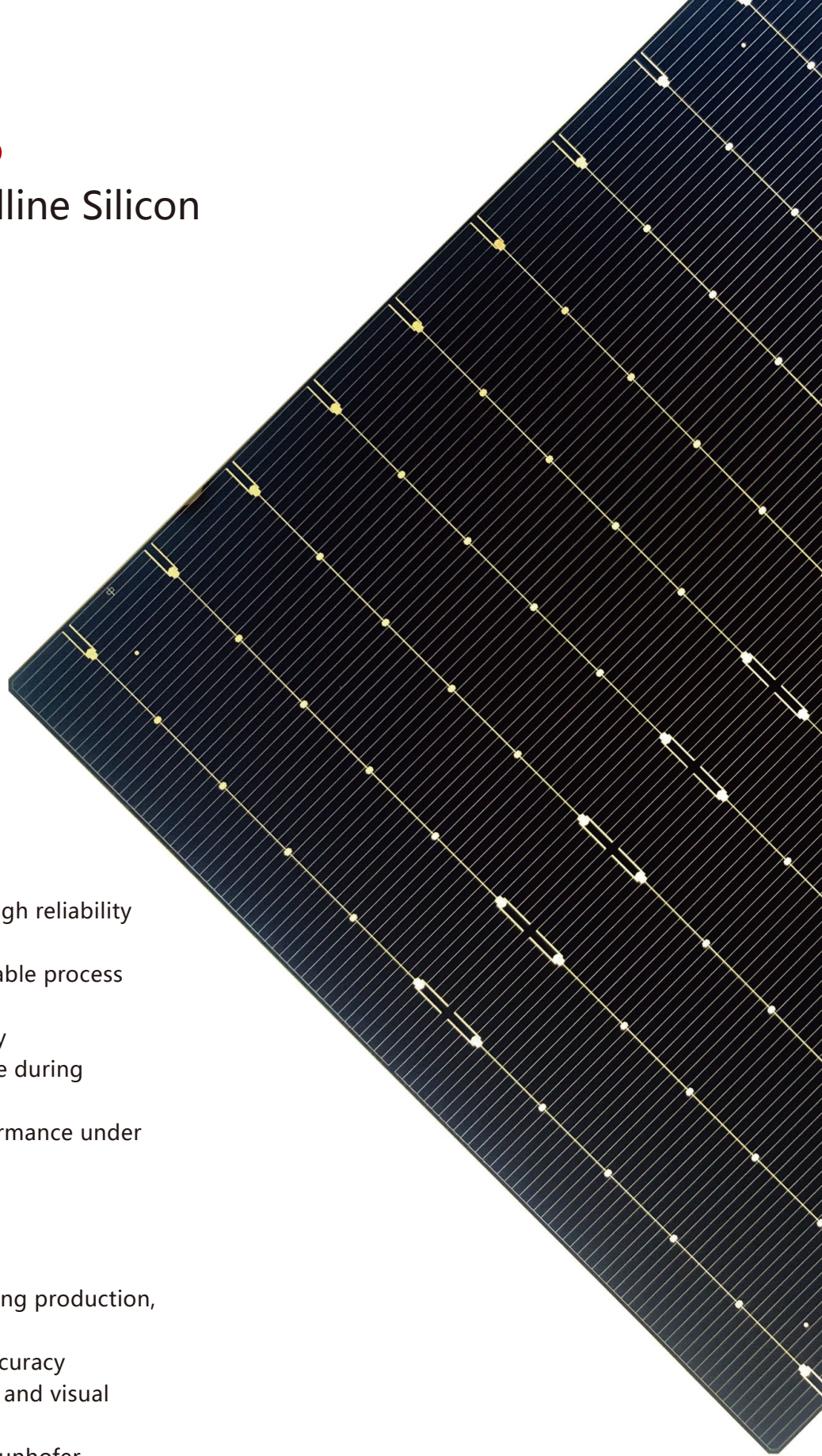


# ZL-NG1-9B

## N-type Mono-crystalline Silicon Solar Cell NG19B-L9



### 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. , a subsidiary under Jolywood Group (stock code: SZ300393), is the world leading n-type bifacial solar cells and modules manufacture. The technology of company NTOPCon, NIBC, TBC, etc, and the annual n-type bifacial production capacity reaches 2.1GW cells and 3GW modules. With vision of "Cultivator of Green Energy", Jolywood adheres to the road of advanced and high efficiency solar technology industrialization.

# ZL-NG1-9B | N-type Mono-crystalline Silicon Solar Cell NG19B-L9

## Product Features >

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

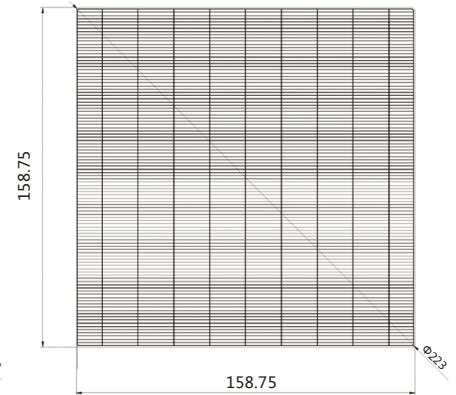
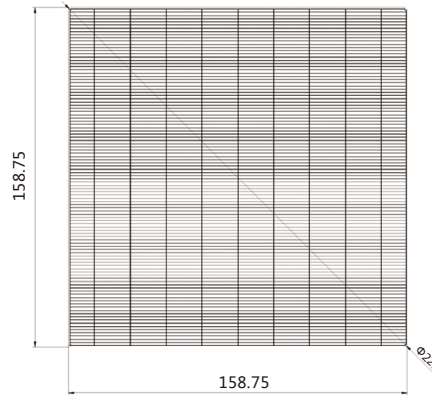
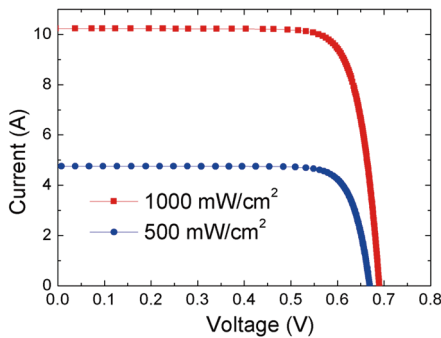
## Electric Performance >

Eff(%)	Pmpp(W)	Ump(V)	Imp(A)	Uoc(V)	Isc(A)	FF(%)
24.4	6.15	0.6228	9.872	0.7148	10.326	83.30
24.3	6.12	0.6214	9.854	0.7135	10.313	83.22
24.2	6.10	0.6201	9.834	0.7119	10.302	83.15
24.1	6.07	0.6184	9.820	0.7106	10.288	83.07
24.0	6.05	0.6169	9.803	0.7093	10.276	82.97
23.9	6.02	0.6155	9.785	0.7081	10.258	82.91
23.8	6.00	0.6139	9.769	0.7069	10.244	82.82
23.7	5.97	0.6125	9.750	0.7056	10.227	82.76
23.6	5.95	0.6112	9.730	0.7044	10.211	82.68
23.5	5.92	0.6099	9.709	0.7031	10.199	82.58
23.4	5.90	0.6084	9.692	0.7027	10.184	82.40
23.3	5.87	0.6063	9.684	0.7014	10.169	82.32
23.2	5.85	0.6046	9.669	0.7003	10.151	82.24
23.1	5.82	0.6028	9.657	0.6991	10.143	82.09
23.0	5.80	0.6011	9.642	0.6977	10.129	82.01

\*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:23.0% → Actual Range : 23.0%~23.1%

## IV Curve >

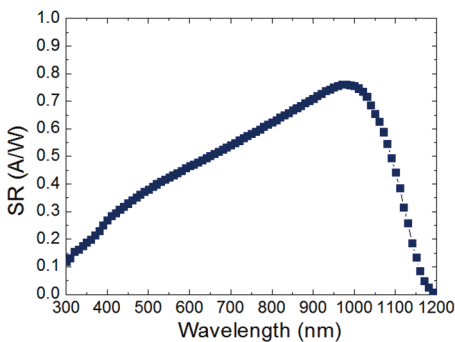


Front side

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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