



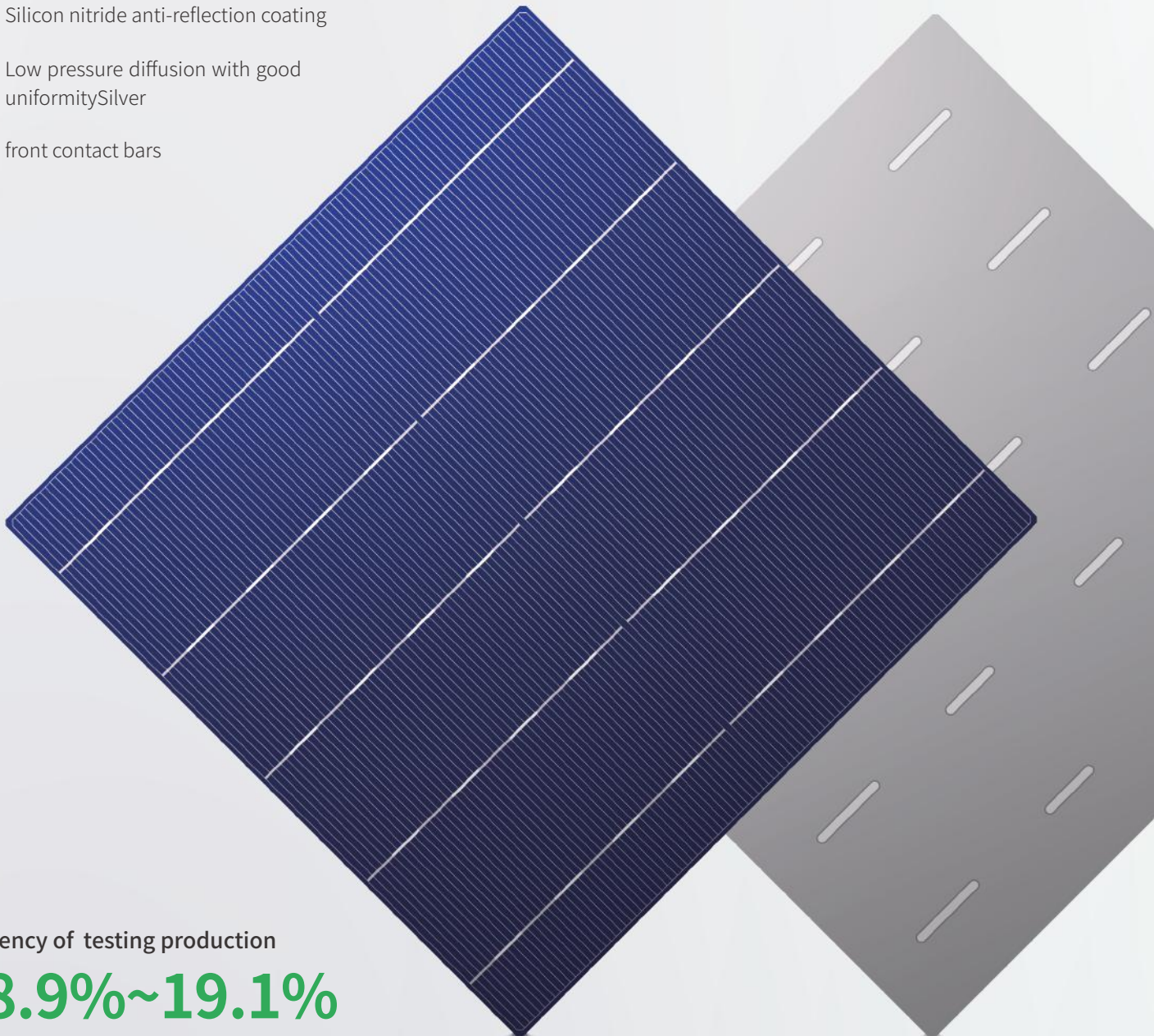




**P1575BB104M8**

# 157 Polycrystalline Solar Cell

-  Ultra-Efficient solar cells
-  Silicon nitride anti-reflection coating
-  Low pressure diffusion with good uniformity Silver
-  front contact bars



efficiency of testing production

**18.9%~19.1%**

## Electrical Performance

Grade	Unit	19.00	18.90	18.80	18.70	18.60	18.50	18.40
Voc	V	0.641	0.640	0.638	0.637	0.636	0.635	0.633
Isc	A	9.060	9.039	9.021	9.001	8.988	8.957	8.933
Vmpp	V	0.545	0.544	0.542	0.541	0.539	0.538	0.537
Imp	A	8.570	8.561	8.541	8.520	8.484	8.466	8.442
Pmpp	W	4.67	4.64	4.62	4.59	4.57	4.55	4.52

Standard Test Conditions: 1000W/m<sup>2</sup>, AM1.5, 25 °C

## Temperature Coefficient

TkPower  $-(0.4035 \pm 0.02) \%/^{\circ}\text{C}$

TkVoltage  $-(0.3283 \pm 0.03) \%/^{\circ}\text{C}$

TkCurrent  $+(0.0725 \pm 0.015) \%/^{\circ}\text{C}$

## Physical Characteristics

Substrate material	P-type polycrystalline silicon wafer
Cell thickness	200 $\mu\text{m} \pm 20\mu\text{m}$
Dimension	157mm*157mm $\pm 0.5\text{mm}$
Diagonal	220.7mm $\pm 0.5\text{mm}$
Front (-)	5*0.56mm $\pm 0.1\text{mm}$ bus bars ( silver) 104 lines, Silicon oxide + blue silicon nitride compound anti-reflection coating(PID Free)
Back (+)	1.3 $\pm 0.3\text{mm}$ wide soldering pads (silver) , Aluminum back-surface field

## Light induced degradation test

Using Xenon lamp (Irradiance of 1000W/m<sup>2</sup>,with spectrum AM 1.5) to irradiate test cells, after a total irradiation of 5 kwh/m<sup>2</sup>,the degradation of maximum output power of cells is  $\leq 1.5\%$

## Anti-PID

Potential Induced Degradation(-1500V,192h): $\leq 3\%$

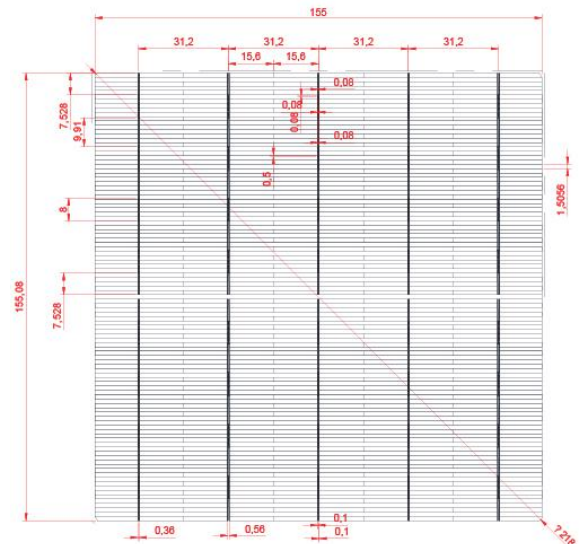
## Packaging, Storage

Solar cells are closely packed with soft sponge around and heat shrink is used around the box unit. Outer packing box must have shock buffer, to be suitable for long-distance delivery.

After packaging, cells should be stored indoors in the conditions of humidity below 60%, and temperature (20 $\pm 10$ ) °C . Cells should be sampling inspected again if the storage time over 90 days.

## Product Appearance

Front



Back

