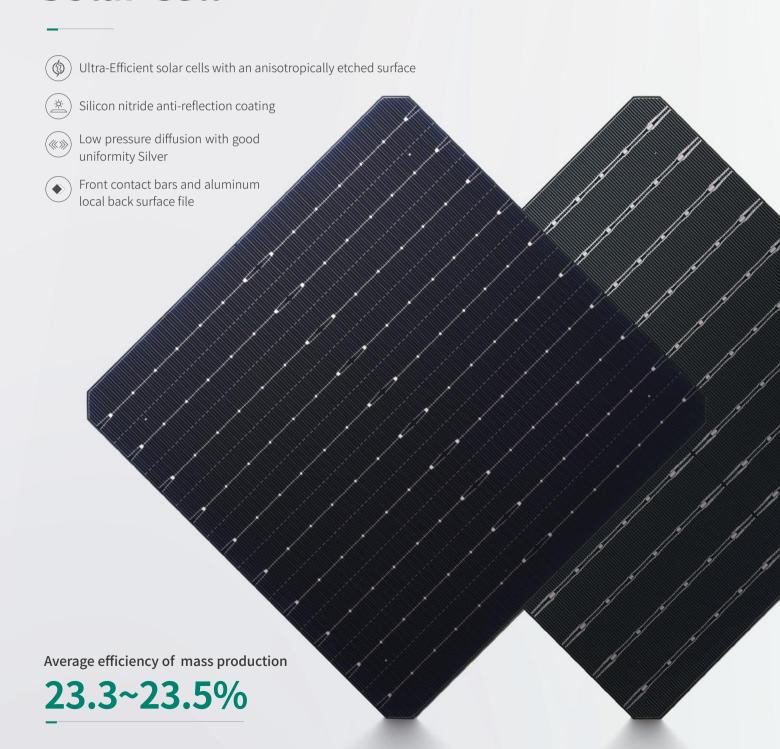


# S18210BB023

# 182 Monocrystalline Bifacial PERC Solar Cell



#### **Electrical Performance**

Grade	Unit	23.30	23.20	23.10	23.00	22.90	22.80	22.70	22.60	22.50	22.40	22.30	22.20
Voc	V	0.689	0.688	0.687	0.686	0.685	0.684	0.683	0.682	0.681	0.680	0.679	0.678
Isc	А	13.654	13.623	13.592	13.563	13.534	13.503	13.478	13.453	13.428	13.403	13.381	13.359
Vmpp	V	0.599	0.598	0.597	0.596	0.595	0.594	0.593	0.592	0.591	0.590	0.589	0.588
Impp	А	12.843	12.808	12.774	12.741	12.706	12.672	12.638	12.604	12.569	12.534	12.500	12.465
Pmpp	W	7.69	7.66	7.63	7.59	7.56	7.53	7.49	7.46	7.43	7.40	7.36	7.33

Standard Test Conditions: 1000W/m2, AM1.5,25 °C

### **Temperature Coefficient**

TkPower	-(0.39±0.02) %/k				
TkVoltage	-(0.33±0.03) %/k				
TkCurrent	+(0.06±0.015) %/k				

## **Physical Charaacteristics**

Substrate material	P-type mono-crystalline silicon wafer-PERC				
Cell thickness	160μm±16μm				
Dimension	182mm*182mm±0.5mm				
Diagonal	247mm±0.5mm				
Front (-)	10*0.08mm±0.03mm bus bars (silver) 168 lines, Silicon oxide + bule silicon nitride compound anti reflection coating(PID Free)				
Back (+)	1.2±0.3mm wide soldering pads (silver), Aluminum oxide and Aluminum lines back-surface field, Laser design of vertical bus bars				

# Light induced degradation test

Using Xenon lamp (Irradiance of 1000W/m2,with spectrum AM 1.5) to irradiate test cells, after a total irradiation of 5 kwh/m2 ,the degradation of maximum output power of cells is  $\leqslant\!2\%$ 

#### **CTM**

Lower cell to module(CTM) power loss:<3%

#### Anti-PID

Potential Induced Degradation(-1500V,192h):<5%

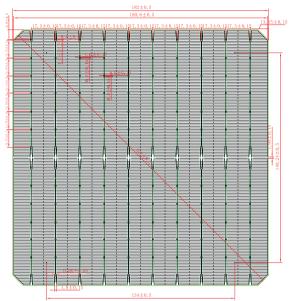
# Packaging, Storage

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 good ventilation, dry, humidity below 60%, and temperature  $\leqslant\!40\,^{\circ}\!C$ . Cells should be sampling inspected again if the storage time over 45 days.

## **Product Appearance**

#### Front



#### Back

