



# **M10-16BB**

## **N-type**

## **Bifacial-TOPCon**

## **Max Efficiency 25.0%**

## **Silicon Solar Cells Specification**

The unique bifacial light receiving structure and half-chip design effectively improves the generating capacity of module.

Lower module operating temperature to further increase the power generation and life span of module.

Rigorous grading standards effectively reduce the power loss in the module package.

Unique finger design, greatly improving the conversion efficiency of the solar cell.

Strict appearance standards improve the passing rate of module production.

Strict pulling force test, to ensure a good weld ability.

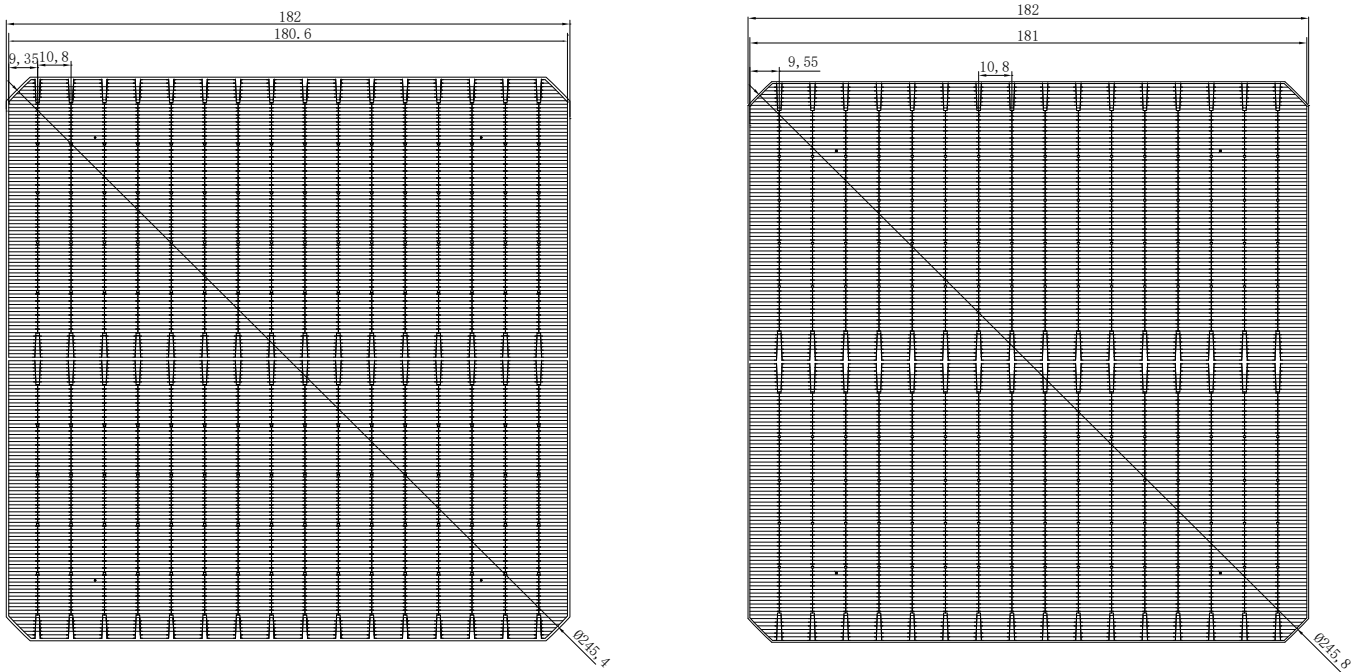
Excellent anti-PID performance to ensure the stability of the module power.

LID free.

Excellent low light power generation characteristics.



## Front and back of cell design drawing



## Mechanical Characteristics

Product	RunDa N-type Bifacial-Topcon M10 16BB Silicon Solar Cells
Dimension	182mm × 182mm, tolerance ±0.25mm
Thickness	130μm, tolerance ±13μm
Front (anode)	Passivated Emitter(A <sub>l</sub> O <sub>x</sub> and SiN <sub>x</sub> dual layer) Rear Contact(Al), Blue silicon nitride anti-reflection coating, Sixteen row, The size of the head pad is 0.6 ± 0.1mm.
Back (cathode)	Tunnel oxide (SiO <sub>x</sub> ,Poly and SiN <sub>x</sub> Three layers) ,Sixteen row, The size of the head pad is 0.6 ± 0.1mm.

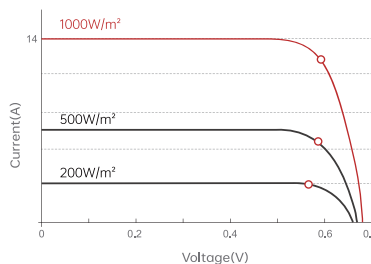
Conversion efficiency Eff (%)	Maximum power Pmax (W)	Open circuit voltage Voc (V)	Short circuit current Isc (A)	Optimum operating voltage Vm (V)	Optimum operating current Im (A)
25.00	8.25	0.634	13.027	0.720	13.719
24.90	8.22	0.632	13.016	0.719	13.699
24.80	8.19	0.630	13.005	0.718	13.680
24.70	8.16	0.628	12.993	0.717	13.660
24.60	8.12	0.626	12.982	0.716	13.640
24.50	8.09	0.624	12.971	0.715	13.620
24.40	8.06	0.622	12.960	0.714	13.600
24.30	8.02	0.620	12.948	0.713	13.579
24.20	7.99	0.618	12.937	0.712	13.559
24.10	7.96	0.616	12.925	0.711	13.538
24.00	7.92	0.614	12.913	0.710	13.517

All data at STC (standard testing conditions): 1000W/m<sup>2</sup>, AM1.5G, 25°C. Pmax ±1.5%, Efficiency ±0.2% abs.

## Temperature coefficients

Power	-0.30%/°C
Current	+0.045%/°C
Voltage	-0.25%/°C

## Electrical Curves



## Spectral Response

