

210N 18BB

N-type Bifacial-TOPCon

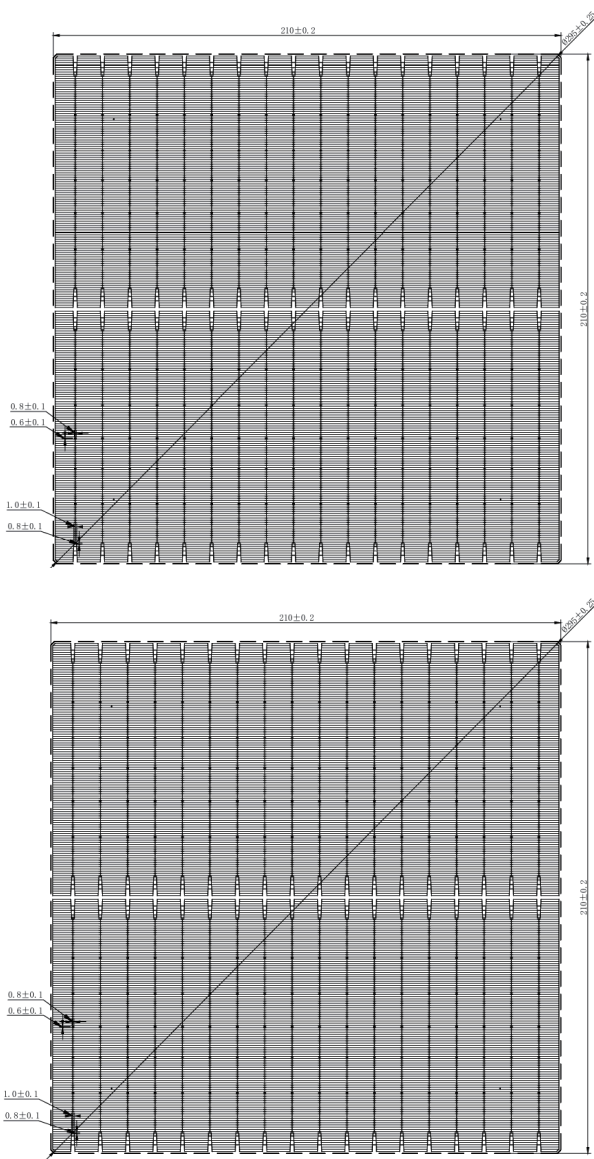
25.7%

Maximum Efficiency

- 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.
- Excellent low light power generation characteristics.
- LID free.



Front and back of cell design drawing



Temperature Characteristics

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

Mechanical Specification

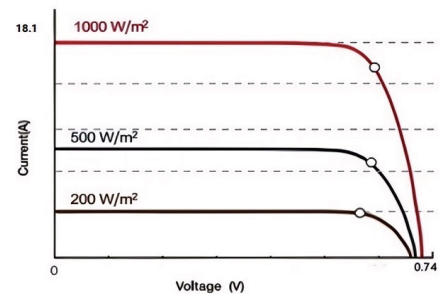
Product	RunDa N-type Bifacial-Topcon 210N 18BB Silicon Solar Cells
Dimensions (mm)	210*210, tolerance±0.2
Thickness (μm)	130, tolerance±10
Front (anode)	Eighteen busbars, The composite passivation structure composed of aluminum oxide (Al ₂ O ₃) and silicon nitride (SiN _x) anti-reflective coatings.
Back (cathode)	Eighteen busbars, The composite passivation structure composed of a tunnel oxide layer, a doped polycrystalline silicon layer, and a silicon nitride anti-reflective coating.

Electrical Specifications (front)

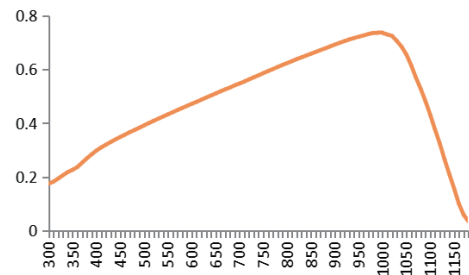
Conversion efficiency Eff (%)	Power (W)	Open circuit voltage Voc (V)	Short circuit current Isc (A)	Optimum operating voltage Vm (V)	Optimum operating current Im (A)
25.7	11.33	0.741	18.080	0.658	17.219
25.6	11.29	0.740	18.067	0.656	17.207
25.5	11.24	0.739	18.054	0.654	17.194
25.4	11.20	0.738	18.041	0.652	17.182
25.3	11.16	0.737	18.028	0.650	17.170
25.2	11.11	0.736	18.015	0.648	17.157
25.1	11.07	0.735	18.002	0.646	17.145
25.0	11.02	0.734	17.989	0.645	17.132
24.9	10.98	0.733	17.976	0.643	17.120
24.8	10.94	0.732	17.963	0.641	17.108

All data at STC (standard testing conditions): 1000W/m², AM1.5G, 25 °C.

Electrical Curves



Spectral Response



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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.

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