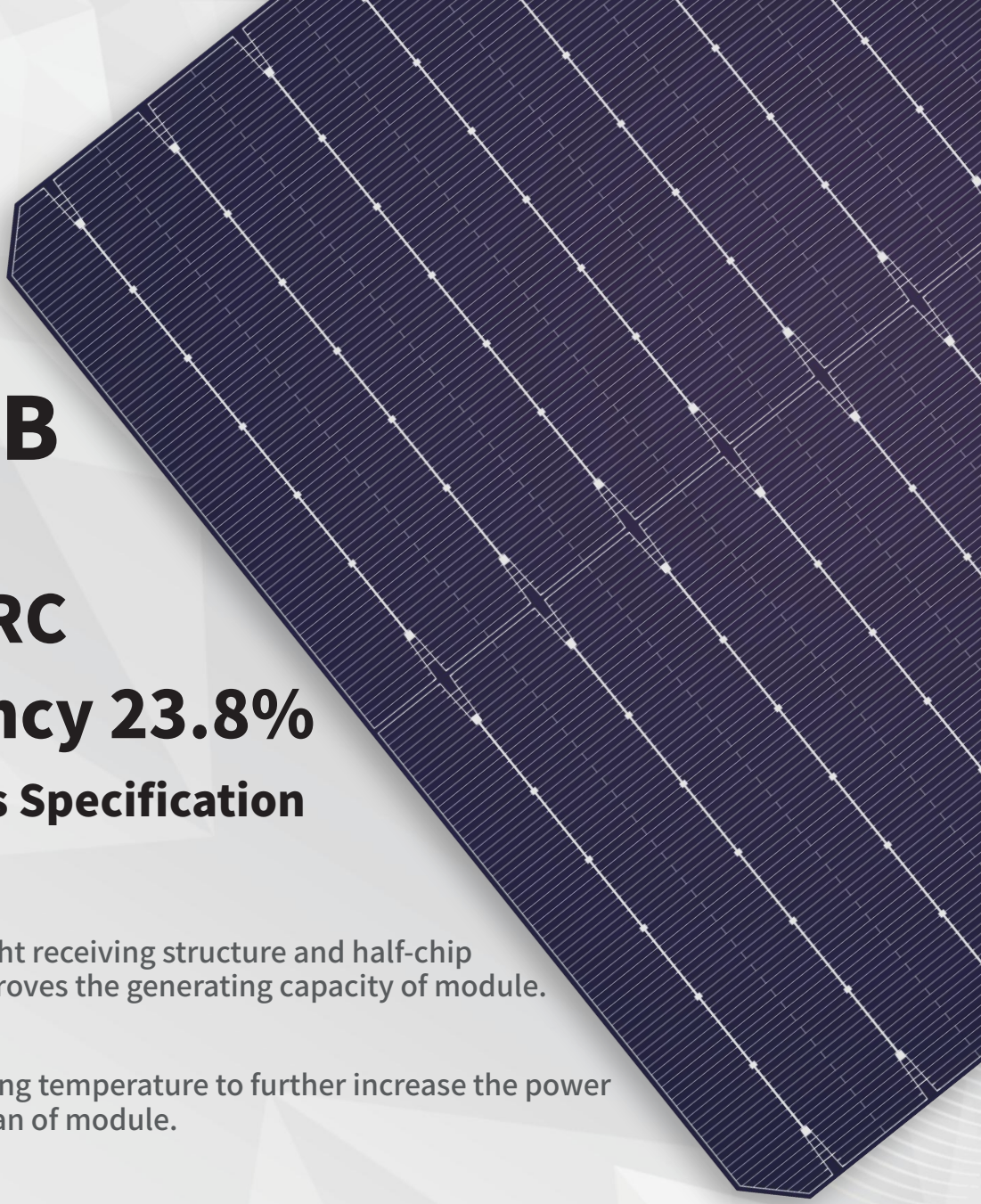
RUNDA SOLAR



M10-10BB

P-type
Bifacial-PERC
Max Efficiency 23.8%

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.

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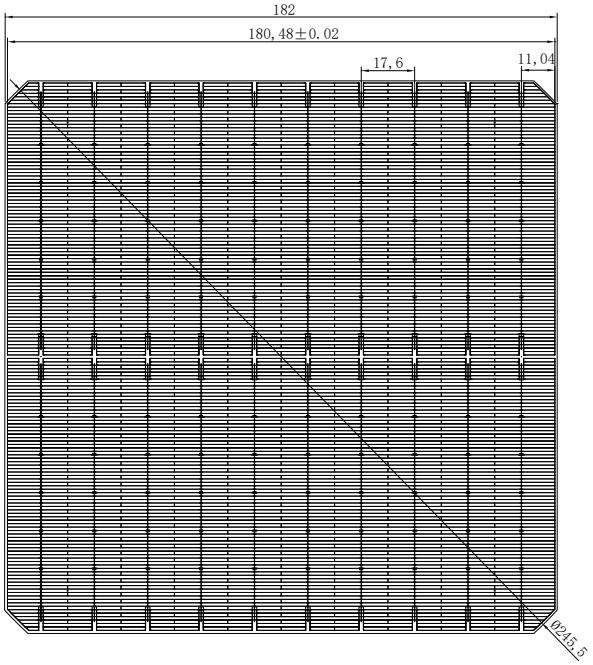
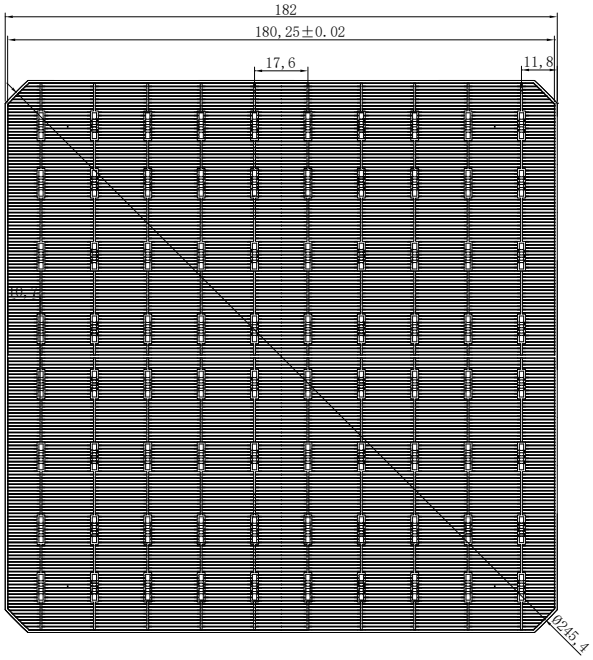
Front and back of cell design drawing





Mechanical Characteristics

Product	RunDa P-type Bifacial-PERC M10 10BB Silicon Solar Cells
Dimension	182mm×182mm, tolerance±0.25mm
Thickness	150μm, tolerance±15μm
Front (anode)	Passivated Emitter(AlOx and SiNx dual layer) Rear Contact(Al), Blue silicon nitride anti-reflection coating, 10 row, The size of the head pad is 0.6 ± 0.1mm.
Back (cathode)	Blue silicon nitride anti-reflection coating,10 row, The size of the head pad is 0.6 ± 0.1mm.

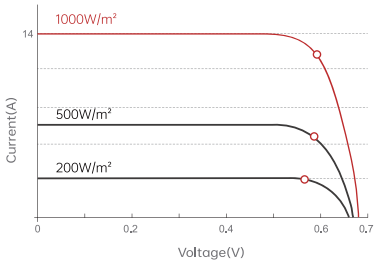
Conversion efficiency Eff (%)	Maximum power Pmax (W)	Open circuit voltage Voc (V)	Short circuit current Isc (A)	Optimum operating voltage Vm (V)	Optimum operating current Im (A)
23.80	7.858	0.698	13.762	0.613	12.81822
23.70	7.825	0.697	13.724	0.612	12.78522
23.60	7.792	0.696	13.686	0.611	12.75211
23.50	7.759	0.695	13.647	0.610	12.71889
23.40	7.726	0.694	13.609	0.609	12.68557
23.30	7.692	0.693	13.570	0.608	12.65213
23.20	7.659	0.692	13.531	0.607	12.61858
23.10	7.626	0.691	13.492	0.606	12.58493
23.00	7.593	0.690	13.454	0.605	12.55116
22.90	7.560	0.689	13.414	0.604	12.51728
22.80	7.527	0.688	13.375	0.603	12.48328

All data at STC (standard testing conditions): 1000W/m2, 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