



EVERVOLT

Energy that lasts forever



M10-10BB

P-type

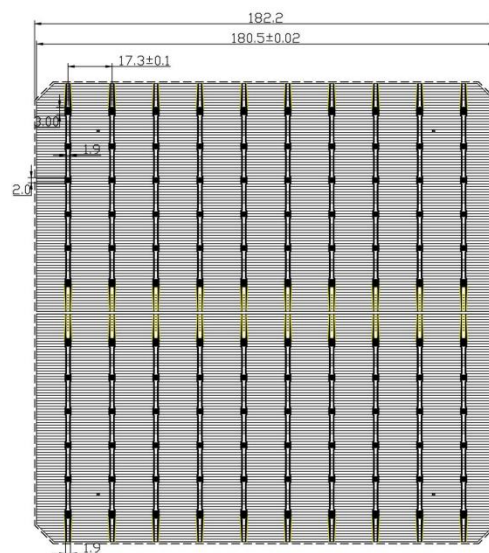
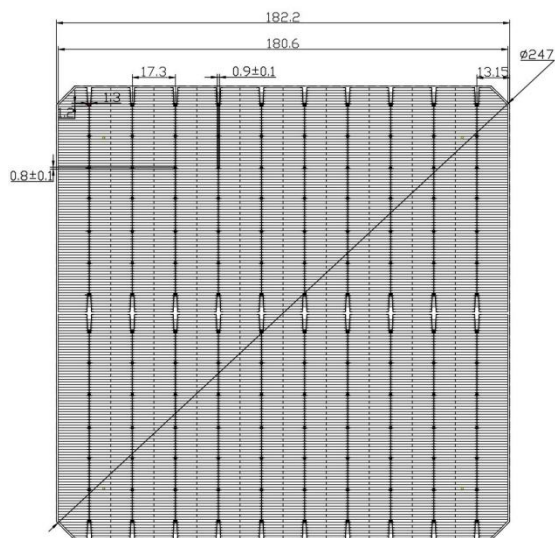
Bifacial - PERC

Max. Efficiency 23.5%

Solar Cells Specification

- ▶ **Bifacial Light-Receiving Structure:** The innovative bifacial design and half-cell configuration significantly enhance the module's power generation capacity.
- ▶ **Lower Operating Temperature:** Reduces module operating temperature, improving power output and extending the module's lifespan.
- ▶ **Rigorous Grading Standards:** Ensures minimal power loss during module packaging for consistent performance.
- ▶ **Enhanced Conversion Efficiency:** Unique finger design optimizes solar cells' energy conversion capabilities.
- ▶ **Strict Appearance Standards:** Ensures higher production quality with improved module passing rates.
- ▶ **Pulling Force Test:** Ensures excellent weldability and mechanical strength for durability.
- ▶ **Anti- PID Performance:** Exceptional resistance to Potential-Induced Degradation (PID) ensures stable module power output over time.

Front and back of cell design drawing



Mechanical characteristics

Product	P-type Bifacial-PERC M10 10BB Silicon Solar Cells
Dimension	182.2mm x 182.2mm(±0.25mm), Φ247mm±0.25mm
Thickness	150 μm, tolerance ± 15 μm
Front side	Blue silicon nitride anti-reflection coating, 10row, The size of the head pad is 1.2 * 1.3 ± 0.1mm
Back side	Passivated Emitter(Alox and siNx dual layer) Rear contact(Al), Blue silicon nitride anti-reflection coating, 10row, The size of the head pad is 3.0 * 1.9 ± 0.1mm

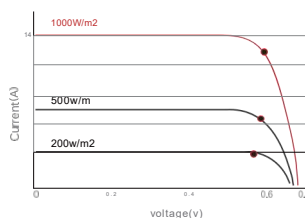
Efficiency(%)	Pmpp (W)	Ump (V)	I _{mp} (A)	U _{oc} (V)	I _{sc} (A)	FF (%)
23.50	7.740	0.615	12.557	0.700	13.596	82.07
23.40	7.710	0.614	12.549	0.700	13.593	82.06
23.30	7.690	0.613	12.539	0.690	13.583	82.05
23.20	7.660	0.612	12.526	0.689	13.568	81.94
23.10	7.630	0.611	12.495	0.688	13.551	81.84
23.00	7.590	0.611	12.426	0.688	13.498	81.73
22.90	7.560	0.610	12.401	0.687	13.479	81.64
22.80	7.530	0.610	12.350	0.687	13.449	81.50
22.70	7.490	0.608	12.324	0.686	13.419	81.36
22.60	7.460	0.607	12.292	0.686	13.407	81.11
22.50	7.430	0.607	12.245	0.685	13.397	80.96
22.40	7.400	0.606	12.214	0.685	13.388	80.69
22.30	7.360	0.605	12.174	0.684	13.358	80.55
22.20	7.330	0.605	12.118	0.683	13.346	80.41
22.10	7.300	0.604	12.097	0.683	13.337	80.14
22.00	7.260	0.604	12.065	0.682	13.320	80.01

All data at STC (standard testing conditions): 1000w/m², AM1.5G, 25°C. P_{max} ± 1.5%, Efficiency ± 0.2% abs.

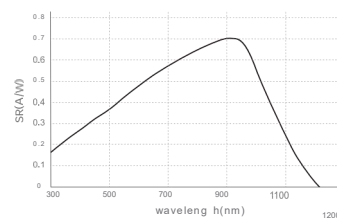
Temperature coefficients

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

Electrical Curves



Spectral Response



Solderability

Peel Strength	≥ 1 N
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Results may be different depending on the conditions.

Packing Configuration

Packaging Size	515*337*255 MM	
Weight	11 Gram/pcs	20 Kgs/Package
Quantity	1600 pcs/Package	24 Packages/Pallet
Container Wise Qty	40'(22 Pallets)	8,44,800 pcs
	32'(18 Pallets)	6,91,200 pcs
	20'(10 Pallets)	3,84,000 pcs