

M18816BTR01

N-Type TOPCon

Mechanical characteristics

Product Specification

N-Type TOPCon 16BB-188(M18816BTR01)
Bifacial Solar Cell

Dimension

182mm*188mm $\pm$ 0.5mm Φ 260mm $\pm$ 0.5mm

Thickness

130 $\pm$ 13 μ m

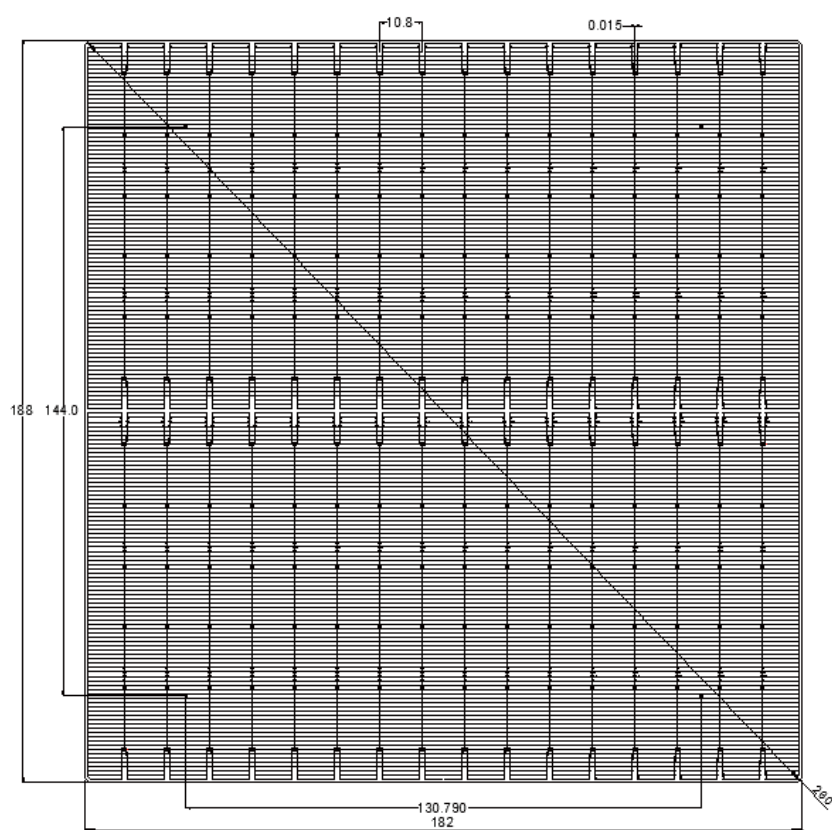
Solderability

Peel strength $\geq$ 0.5N/mm, Results may vary depending on electrode,welding method,and conditions.

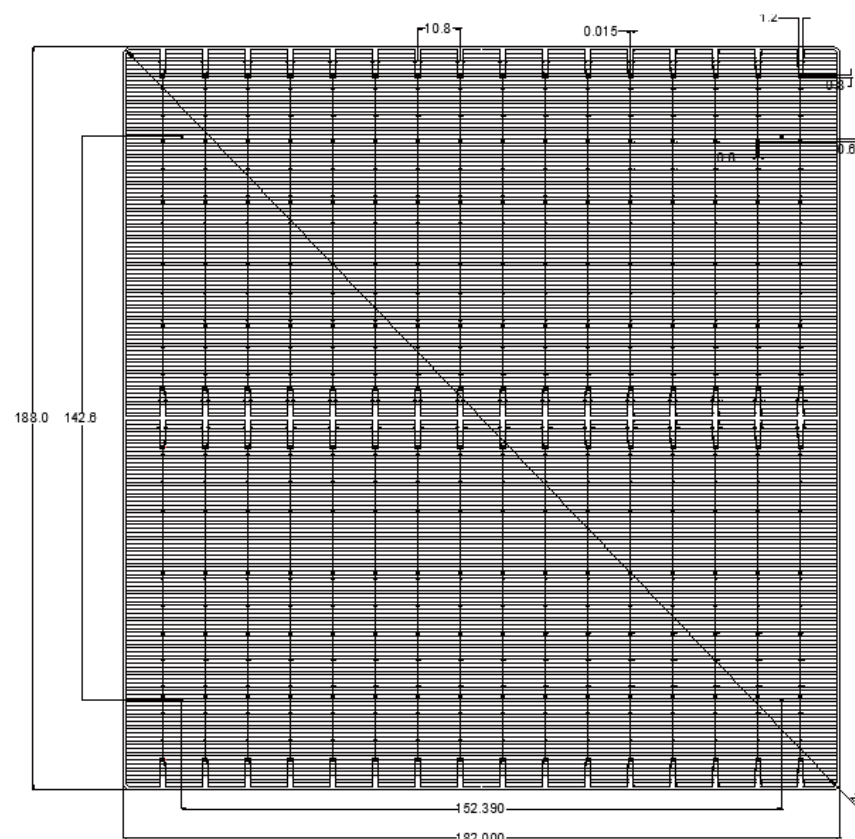
Product Characteristics

-  High Conversion Efficiency, front efficiency $\geq$ 24.5%
-  Bifacial rate $\geq$ 80%
-  Low LID
-  superior anti-PID performance
-  temperature coefficient of power as low as -0.32%/K
-  relative conversion efficiency $\geq$ 97% under low light 200W/m²
-  Low cell to module(CTM) power loss,
more suitable for high-efficiency module

Product appearance



Front



Back

Front Electrical Characteristic

No.	Eff(%)	Power Pmpp(W)	Max. Power Voltage Vmpp(V)	Max. Power Current Impp(A)	Open Circuit Voltage Voc(V)	Short Circuit Current Isc(A)	FF(%)
1	25.4	8.68	0.618	14.043	0.728	14.323	84.20
2	25.3	8.64	0.618	14.017	0.725	14.317	84.34
3	25.2	8.61	0.616	13.977	0.724	14.358	83.92
4	25.1	8.58	0.614	13.975	0.723	14.360	83.63
5	25.0	8.54	0.613	13.965	0.722	14.379	83.50
6	24.9	8.51	0.612	13.955	0.721	14.370	83.16
7	24.8	8.47	0.612	13.941	0.722	14.380	83.16
8	24.7	8.44	0.610	13.845	0.720	14.372	83.01
9	24.6	8.41	0.610	13.798	0.719	14.382	82.92
10	24.5	8.37	0.609	13.755	0.718	14.371	82.88
11	24.4	8.34	0.608	13.721	0.718	14.369	82.65
12	24.3	8.30	0.608	13.682	0.718	14.375	82.60
13	24.2	8.27	0.607	13.637	0.717	14.368	82.58
14	24.1	8.23	0.606	13.605	0.715	14.371	82.30
15	24.0	8.20	0.605	13.581	0.715	14.368	82.05

* Standard Test Condition(STC):1000W/m², AM1.5, 25°C
The above technical parameters are subject to technical changes and tests, ANHUI MEIDALUN reserves the right of final interpretation

Light Intensity

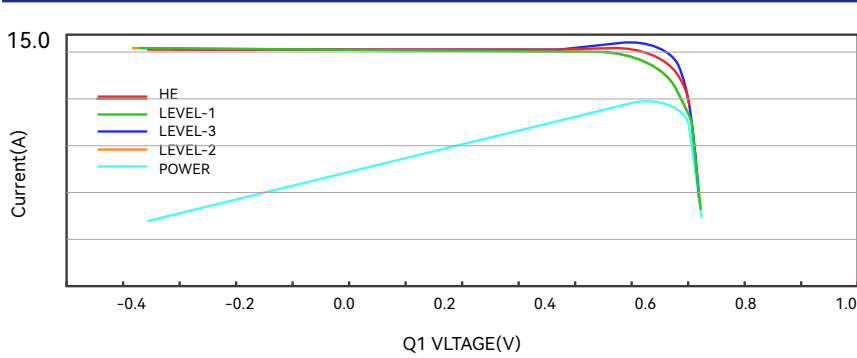
Intensity(W/m²)	Voc	Isc
1000	1.000	1.000
900	0.996	0.903
800	0.991	0.803
600	0.988	0.602
400	0.962	0.403

*Voc(Isc) measured at 1000W/m², the extent of Voc(Isc) decreasing with light intensity.

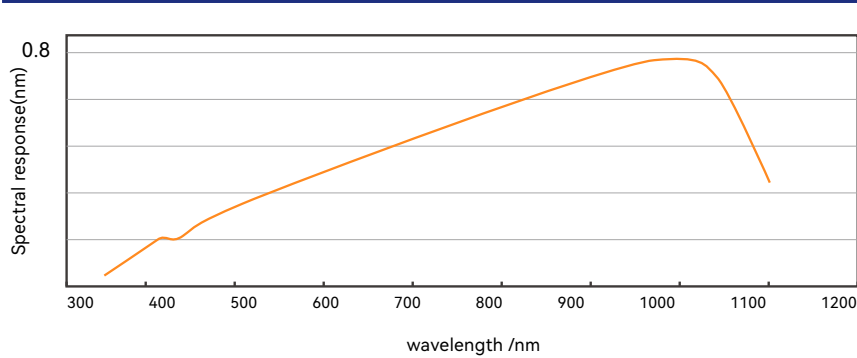
Temperature Coefficients

TkCurrent:	0.045%/K
TkVoltage:	-0.25%/K
TkPower:	-0.32 %/K

IV Curve



Spectral Response



Quality Control

accuracy of efficiency test control in ±0.1%
100% automatic inspection of electrical performance, appearance and EL
Calibration cells are traceable to Fraunhofer ISE