

M18216BTS03

N-Type TOPCon

Mechanical characteristics

Product Specification

N-Type TOPCon 16BB-182.2(M18216BTS03)
Bifacial Solar Cell

Dimension

182.2mm*182.2mm±0.5mm Φ 247mm±0.5mm

Thickness

130±13 μ m

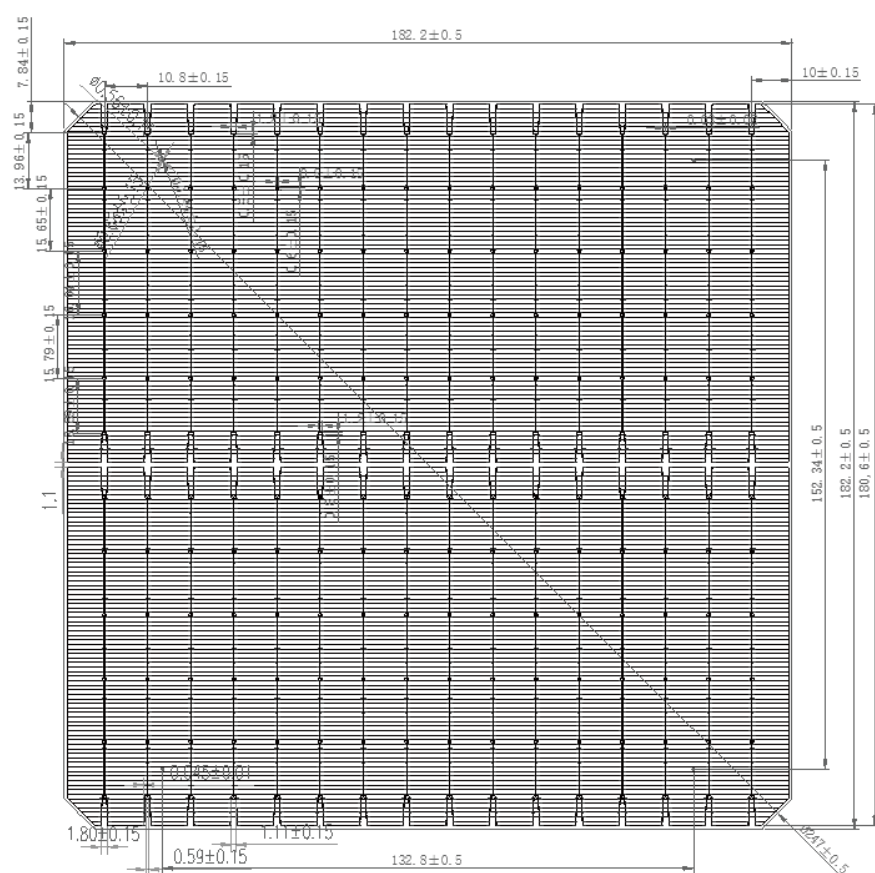
Solderability

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

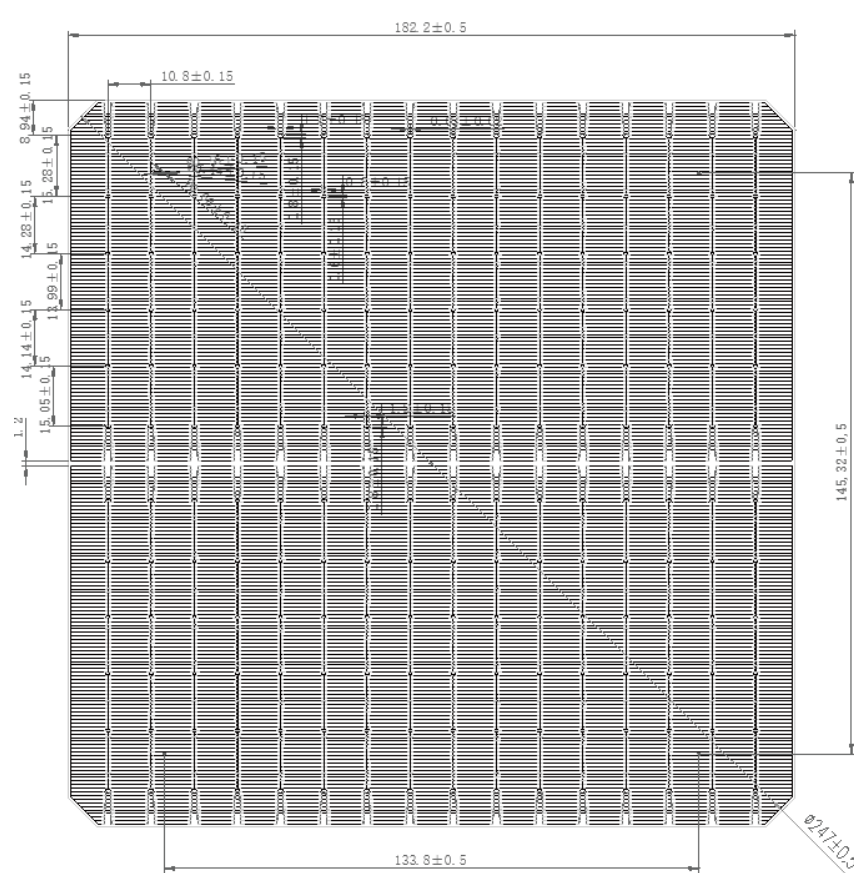
Product Characteristics

-  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	25.1	8.29	0.629	13.185	0.720	13.822	83.62
2	25.0	8.25	0.627	13.165	0.718	13.813	83.49
3	24.9	8.22	0.625	13.158	0.716	13.801	83.40
4	24.8	8.19	0.623	13.139	0.714	13.792	83.25
5	24.7	8.15	0.622	13.111	0.712	13.787	83.11
6	24.6	8.12	0.620	13.091	0.711	13.776	83.03
7	24.5	8.09	0.619	13.068	0.709	13.759	82.92
8	24.4	8.06	0.617	13.031	0.707	13.755	82.81
9	24.3	8.02	0.617	12.999	0.705	13.752	82.72
10	24.2	7.99	0.615	12.992	0.703	13.750	82.62
11	24.1	7.96	0.614	12.960	0.701	13.734	82.59
12	24.0	7.92	0.612	12.948	0.699	13.730	82.53
13	23.9	7.89	0.610	12.936	0.698	13.707	82.44
14	23.8	7.86	0.608	12.925	0.697	13.687	82.35
15	23.7	7.82	0.606	12.913	0.696	13.663	82.26

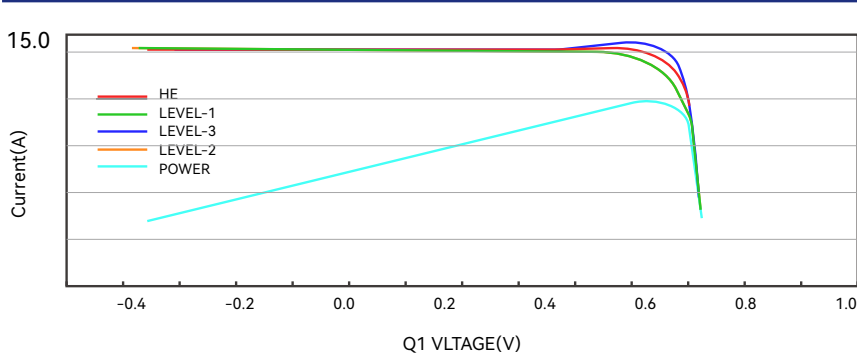
* Standard Test Condition(STC):1000W/m², AM1.5, 25°C
The above technical parameters are subject to technical changes and tests, ANHUI MEIDALUN reserves the right of final interpretation

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.

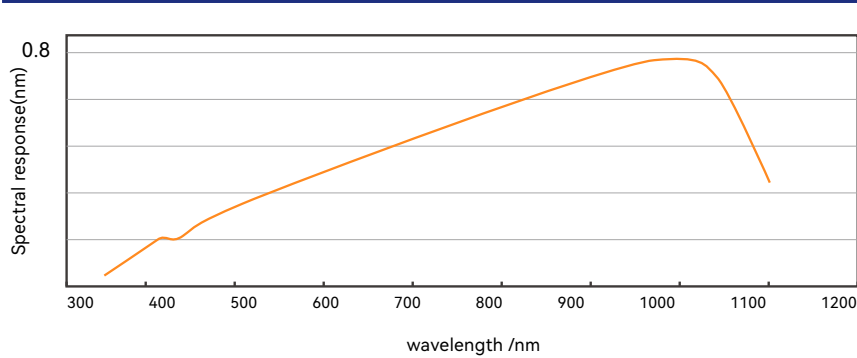
IV Curve



Temperature Coefficients

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

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