

M21018BTS01

N-Type TOPCon

Mechanical characteristics

Product Specification

N-Type TOPCon 18BB-210(M21018BTS01)
Bifacial Solar Cell

Dimension

210mm*210mm±0.5mm Φ295mm±0.5mm

Thickness

130μm+20/-10

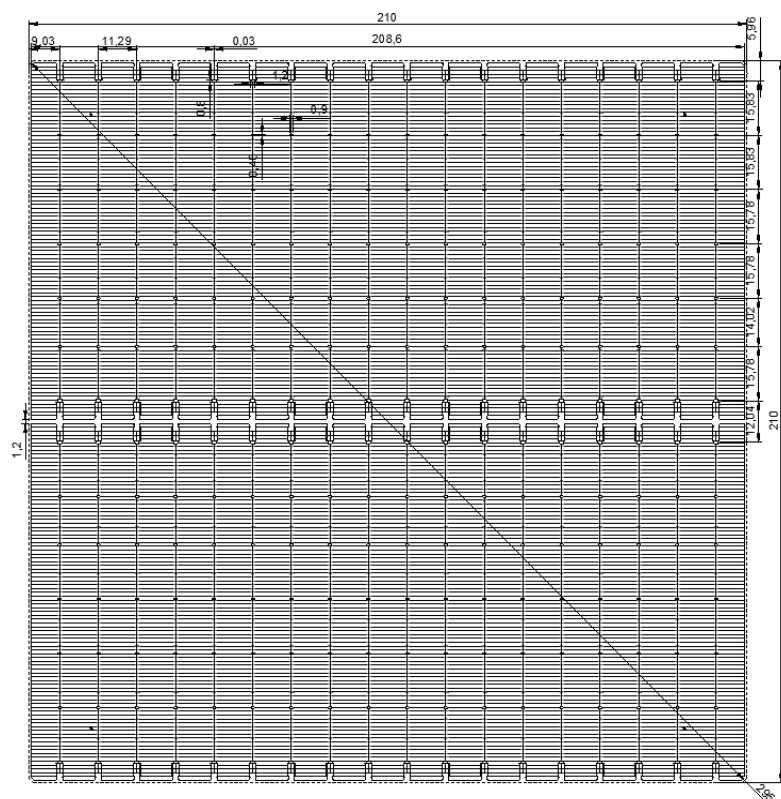
Solderability

Peel strength $\geq 1.1\text{N/mm}$, Results may vary depending on electrode, welding method, and conditions.

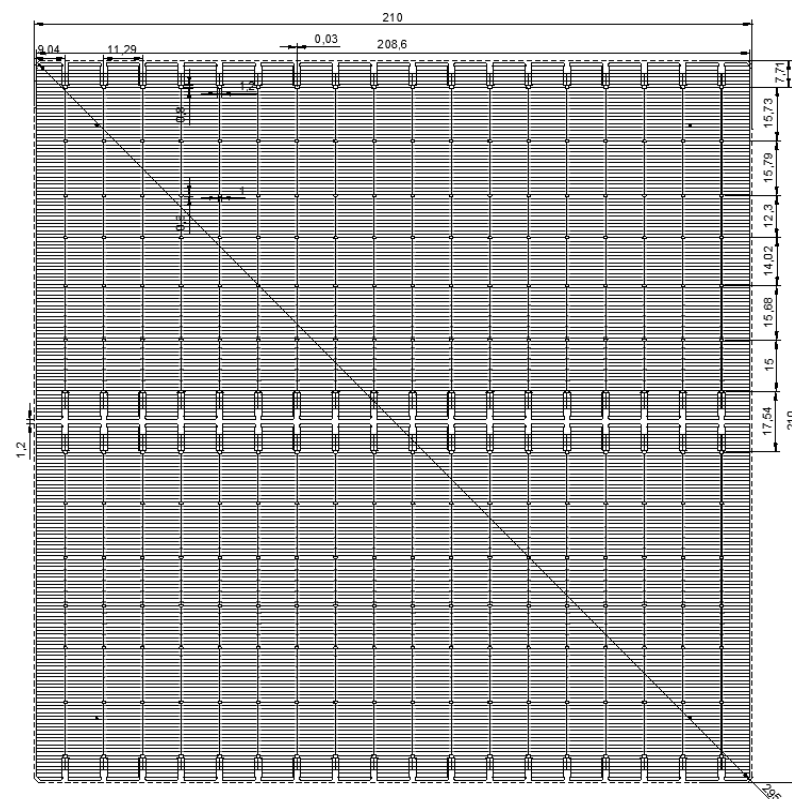
Product Characteristics

-  High Conversion Efficiency, front efficiency $\geq 24.3\%$
-  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/m^2
-  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	25.5	11.24	0.635	17.701	0.728	18.504	83.44
2	25.4	11.20	0.634	17.666	0.727	18.476	83.38
3	25.3	11.16	0.633	17.630	0.726	18.441	83.36
4	25.2	11.11	0.632	17.579	0.725	18.392	83.32
5	25.1	11.07	0.631	17.544	0.724	18.357	83.29
6	25.0	11.02	0.630	17.492	0.723	18.309	83.25
7	24.9	10.98	0.629	17.456	0.722	18.286	83.17
8	24.8	10.94	0.628	17.420	0.721	18.261	83.09
9	24.7	10.89	0.627	17.368	0.72	18.220	83.01
10	24.6	10.85	0.626	17.332	0.719	18.197	82.93
11	24.5	10.80	0.625	17.280	0.718	18.156	82.85

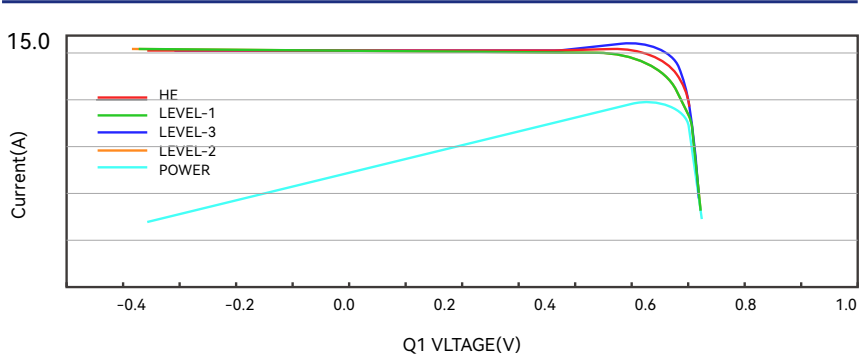
* Standard Test Condition(STC):1000W/m2, AM1.5, 25℃
The above technical parameters are subject to technical changes and tests, ANHUI MEIDALUN reserves the right of final interpretation

Light Intensity

Intensity(W/m²)	Uoc	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.

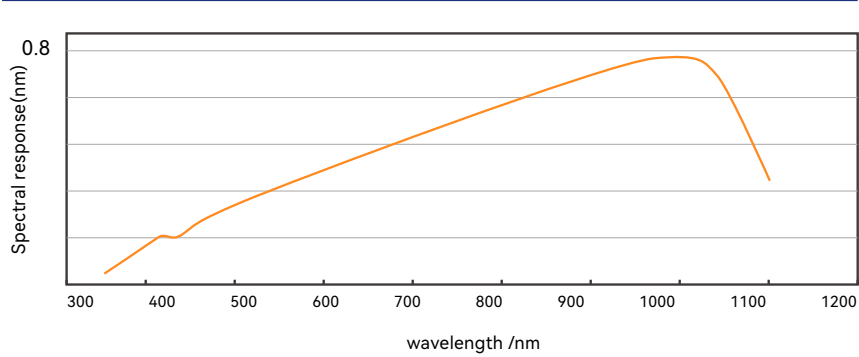
IV Curve



Temperature Coefficients

TkCurrent:	0.046%/K
TkVoltage:	-0.26%/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