



N210R-16NS02

N-TypeTOPCon

Mechanical Characteristics

Product Specification

N-Type TOPCon 16BB-210R(N210R-16NS02)
Bifacial Solar Cell

Dimension

182.3mm*210mm±0.25mm Φ272mm±0.25mm

Thickness

130±10%μm

Solderability

Front

16 Bus bars(silver) with width0.8±0.2mm,236±10%fingers,blue silicon nitride anti- reflection coating

Back

16 bus bars(silver) with width0.8±0.2mm,226±10%fingers,blue silicon nitride anti- reflection coating

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

Product Characteristics

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High Conversion Efficiency, front efficiency≥25.2%
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Bifaciality rate≥80%
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Low LID
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Superior anti-PID performance
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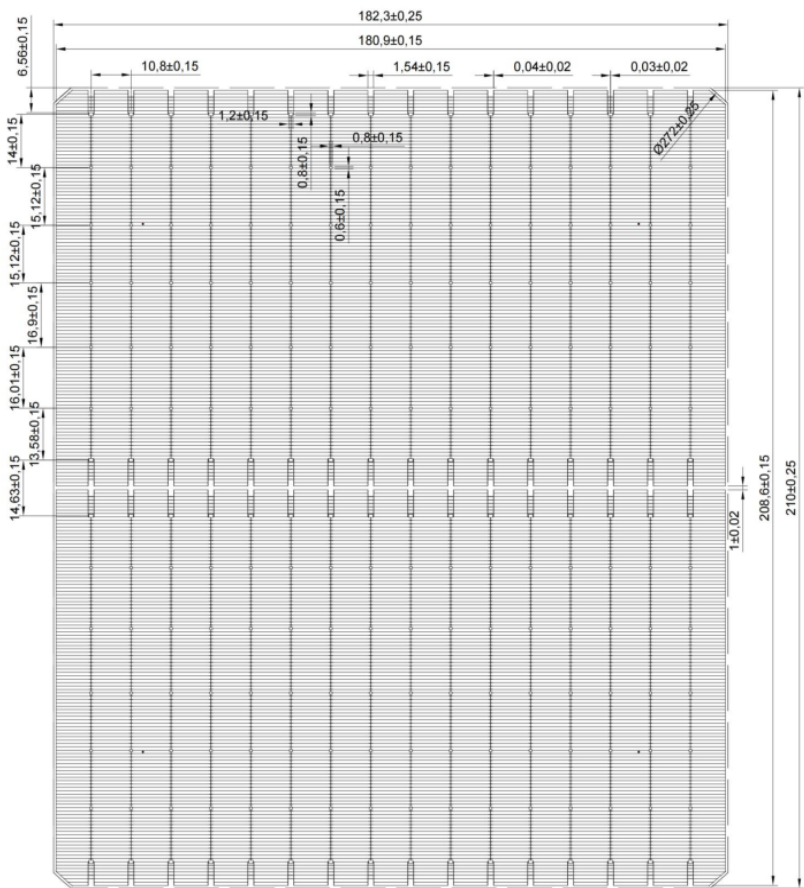
Temperature coefficient of power as low as -(0.30±0.0085)%/K
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Low cell to module(CTM) power loss
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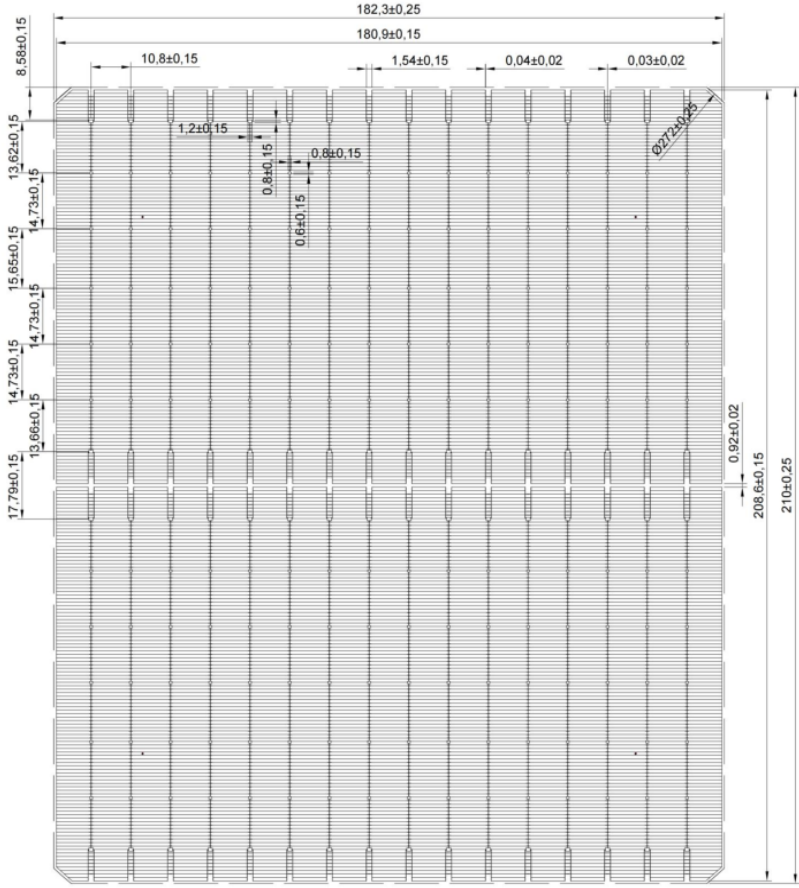
More suitable for high-efficiency module

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Product Appearance



Front



Back

Front Electrical Characteristic

Eff. Grade (%)	Isc(A)	Voc(V)	Imp(A)	Vmpp(V)	Pmpp(W)	FF (%)
25.7	15.750	0.732	15.286	0.642	9.81	85.12
25.6	15.731	0.731	15.250	0.641	9.78	85.01
25.5	15.709	0.730	15.238	0.639	9.74	84.91
25.4	15.698	0.728	15.226	0.637	9.70	84.87
25.3	15.671	0.727	15.190	0.636	9.66	84.80
25.2	15.637	0.726	15.154	0.635	9.62	84.76
25.1	15.612	0.725	15.141	0.633	9.58	84.68
25.0	15.589	0.724	15.105	0.632	9.55	84.58
24.9	15.548	0.723	15.068	0.631	9.51	84.58
24.8	15.496	0.722	15.032	0.630	9.47	84.64
24.7	15.472	0.721	14.995	0.629	9.43	84.55
24.6	15.412	0.720	14.958	0.628	9.39	84.65

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

Light Intensity

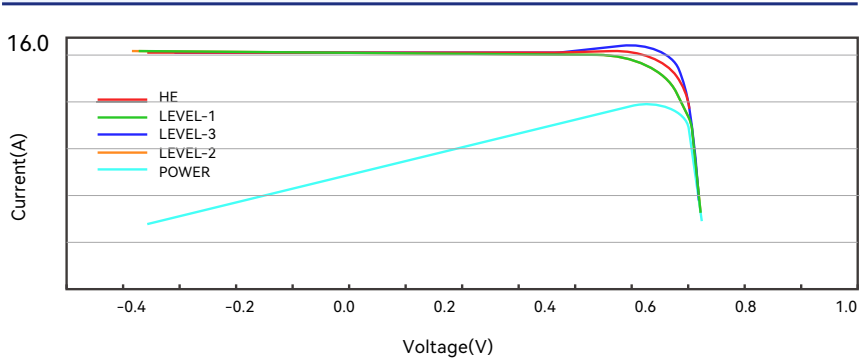
Intensity(W/m²)	Voc	Isc
1000	1.000	1.000
900	0.996	0.903
800	0.991	0.803
600	0.988	0.602
400	0.962	0.403

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

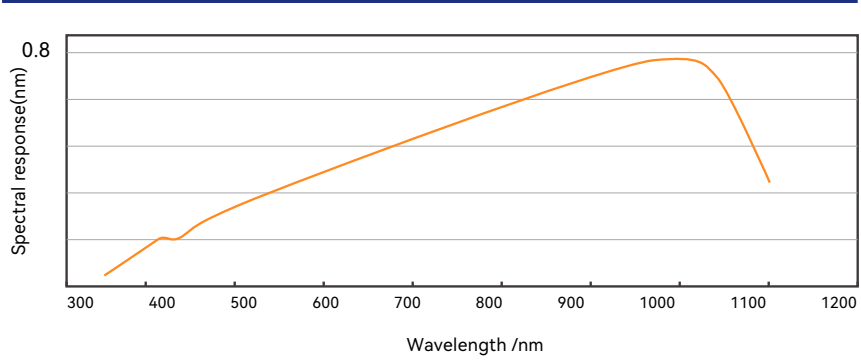
Temperature Coefficients

TkCurrent:	0.045%/K
TkVoltage:	-0.25%/K
TkPower:	-0.30 %/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