

N183-16NS02

N-Type TOPCon

Mechanical Characteristics

Product Specification

N-Type TOPCon 16BB-183(N183-16NS02)
Bifacial Solar Cell

Dimension

182.3mm*183.75mm±0.5mm Φ257mm±0.5mm

Thickness

130±15μm

Solderability

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

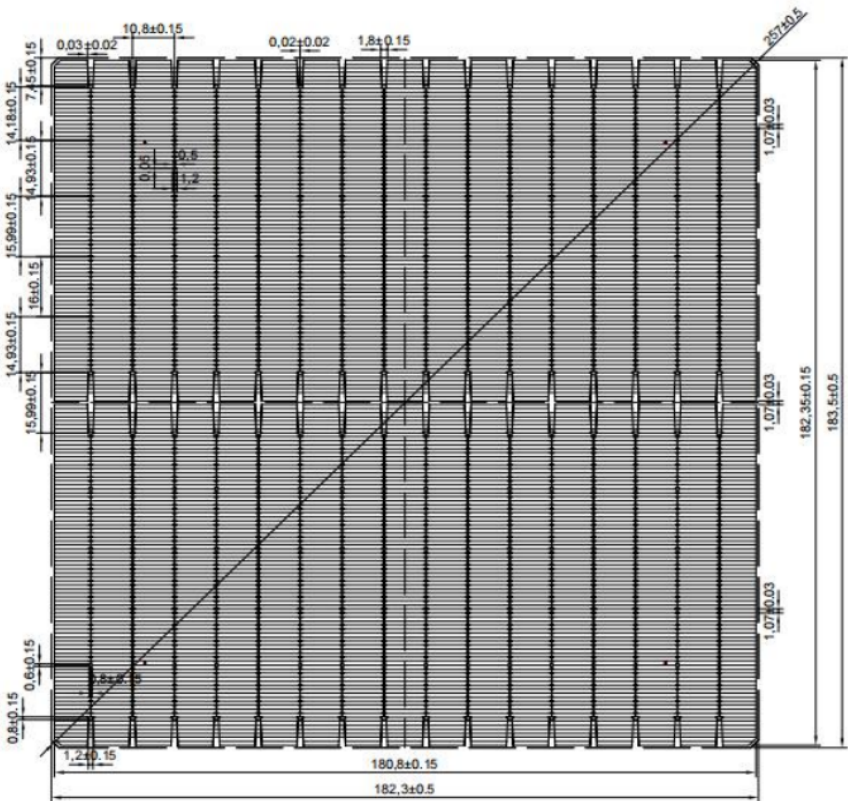
Product Characteristics

- High Conversion Efficiency, front efficiency≥25.2%
- Bifaciality rate≥80%
- Low LID
- Superior anti-PID performance

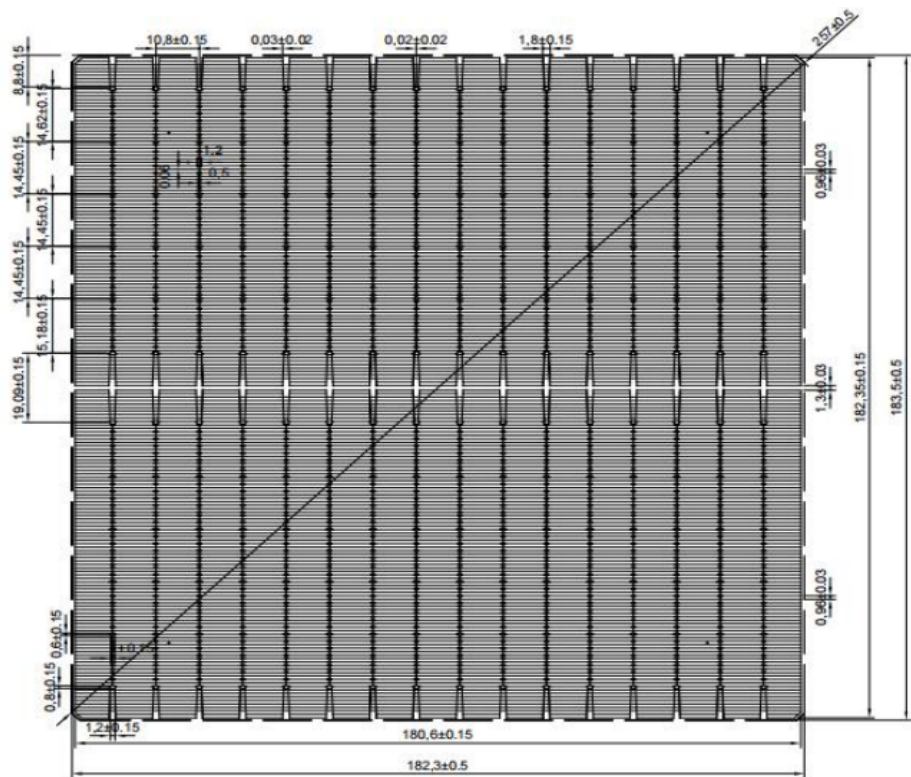
- Temperature coefficient of power as low as -0.32%/K
- Low cell to module(CTM) power loss,
- More suitable for high-efficiency module

2

Product Appearance



Front



Back

Front Electrical Characteristic

Eff. Grade (%)	Isc(A)	Voc(V)	Imp(A)	Vmpp(V)	Pmpp(W)	FF (%)
25.5	13.947	0.730	13.441	0.635	8.54	83.83
25.4	13.964	0.728	13.431	0.633	8.50	83.63
25.3	13.956	0.727	13.442	0.630	8.47	83.46
25.2	13.939	0.726	13.452	0.627	8.43	83.35
25.1	13.919	0.725	13.442	0.625	8.40	83.25
25.0	13.895	0.724	13.453	0.622	8.37	83.18
24.9	13.857	0.723	13.421	0.621	8.33	83.19
24.8	13.807	0.722	13.388	0.620	8.30	83.27
24.7	13.777	0.721	13.356	0.619	8.27	83.23
24.6	13.738	0.720	13.323	0.618	8.23	83.24
24.5	13.700	0.719	13.291	0.617	8.20	83.25

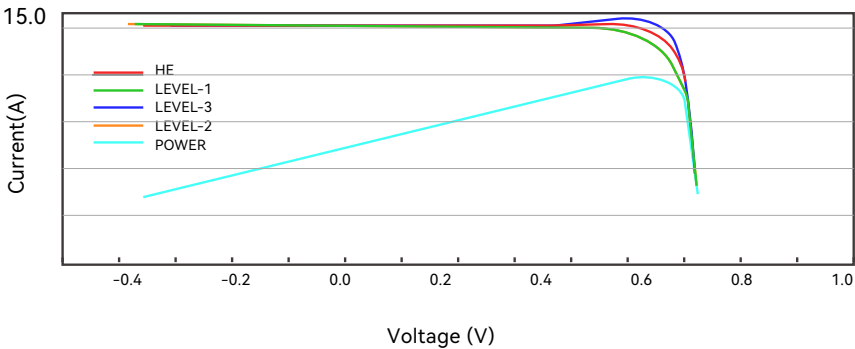
* Standard Test Condition(STC):1000W/m², AM1.5, 25℃
The above technical parameters are subject to technical changes and tests, Nile solar reserves the right of final interpretation

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.

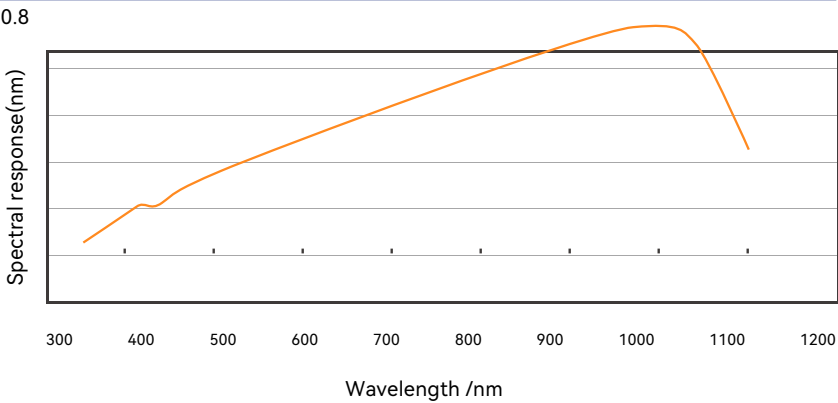
IV Curve



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