



TOPCon Series

Features Performance and Quality

- Industry-Leading efficiency of N-type mono-crystalline silicon solar cell
- Compatible with present mainstream module manufacturing process
- 100% in-line optical and electrical inspection

NSEZC 182mm Monocrystalline Silicon Solar Cell (PID FREE) Pattern Code 16BB-27B36

PHYSICAL CHARACTERISTICS

Dimensions 182.00mm × 182.00mm ± 0.5mm

Thickness 130μm ±13μm

Front 16 Bus-bars width 0.036mm ± 0.02mm

Back 16 Bus-bars width 0.036mm ± 0.02mm

Distance between bus-bars: 10.8 mm ± 0.15mm

Distance between bus-bars: 10.8 mm ± 0.15mm

ELECTRICAL CHARACTERISTICS

Code	25.5	25.4	25.3	25.2	25.1	25	24.9	24.8	24.7	24.6	24.5	24.4	24.3	24.2
Pmpp (W)	8.419	8.386	8.353	8.320	8.287	8.254	8.220	8.187	8.154	8.121	8.088	8.055	8.022	7.989
Umpp (V)	0.617	0.616	0.615	0.614	0.613	0.612	0.611	0.611	0.610	0.609	0.608	0.607	0.607	0.606
Impp (A)	13.651	13.606	13.577	13.553	13.518	13.475	13.440	13.405	13.370	13.335	13.300	13.265	13.230	13.195
Voc (V)	0.718	0.717	0.716	0.715	0.714	0.713	0.712	0.712	0.711	0.710	0.709	0.708	0.708	0.707
Isc (A)	14.218	14.183	14.148	14.113	14.078	14.035	14.000	13.965	13.930	13.895	13.860	13.825	13.790	13.755

Temperature coefficients TkCurrent : 0.045%/K , TkVoltage : -0.25%/K , TkPower : -0.32%/K

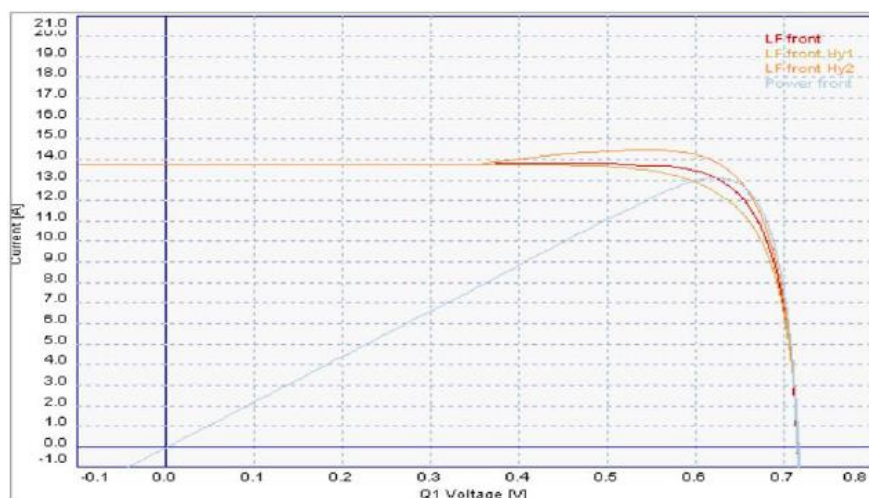
Code	24.1	24.0	23.9	23.8	23.7	23.6	23.5	23.4	23.3	23.2	23.1	23.0	22.9	22.8
Pmpp (W)	7.956	7.923	7.890	7.857	7.824	7.791	7.758	7.725	7.692	7.659	7.626	7.593	7.560	7.527
Umpp (V)	0.605	0.604	0.603	0.602	0.602	0.601	0.600	0.599	0.598	0.598	0.597	0.596	0.595	0.594
Impp (A)	13.155	13.115	13.080	13.055	13.006	12.968	12.931	12.893	12.855	12.817	12.779	12.740	12.702	12.664
Voc (V)	0.706	0.705	0.704	0.703	0.702	0.701	0.700	0.699	0.698	0.697	0.696	0.696	0.695	0.694
Isc (A)	13.715	13.675	13.640	13.615	13.581	13.543	13.501	13.478	13.432	13.392	13.347	13.303	13.260	13.218

Temperature coefficients TkCurrent : 0.045%/K , TkVoltage : -0.25%/K , TkPower : -0.32%/K

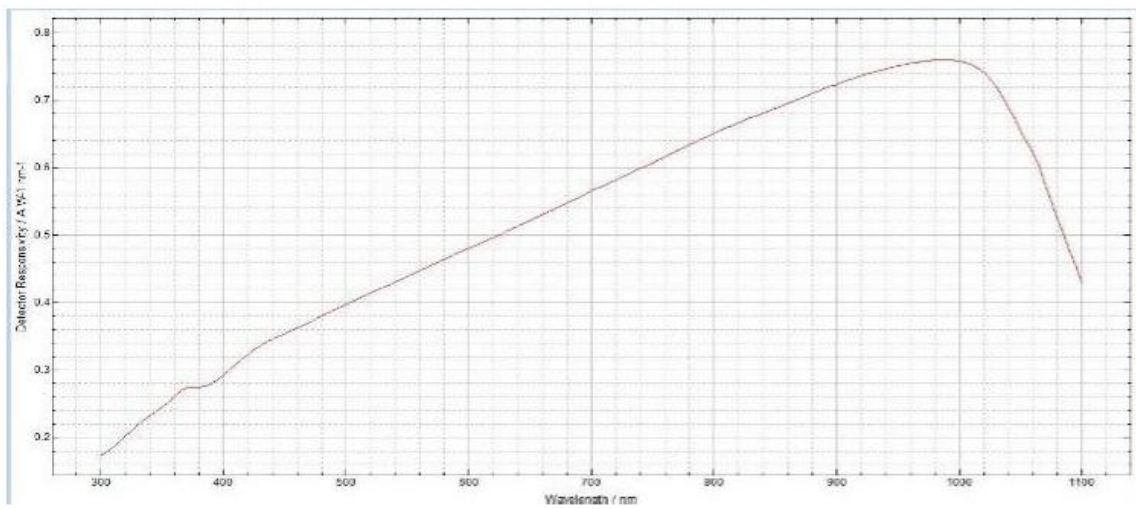
The above data are average figures presently measured. Accuracy of eff. measurement is ±0.1%.

Reference data are calibrated by Fraunhofer ISE Freiburg.

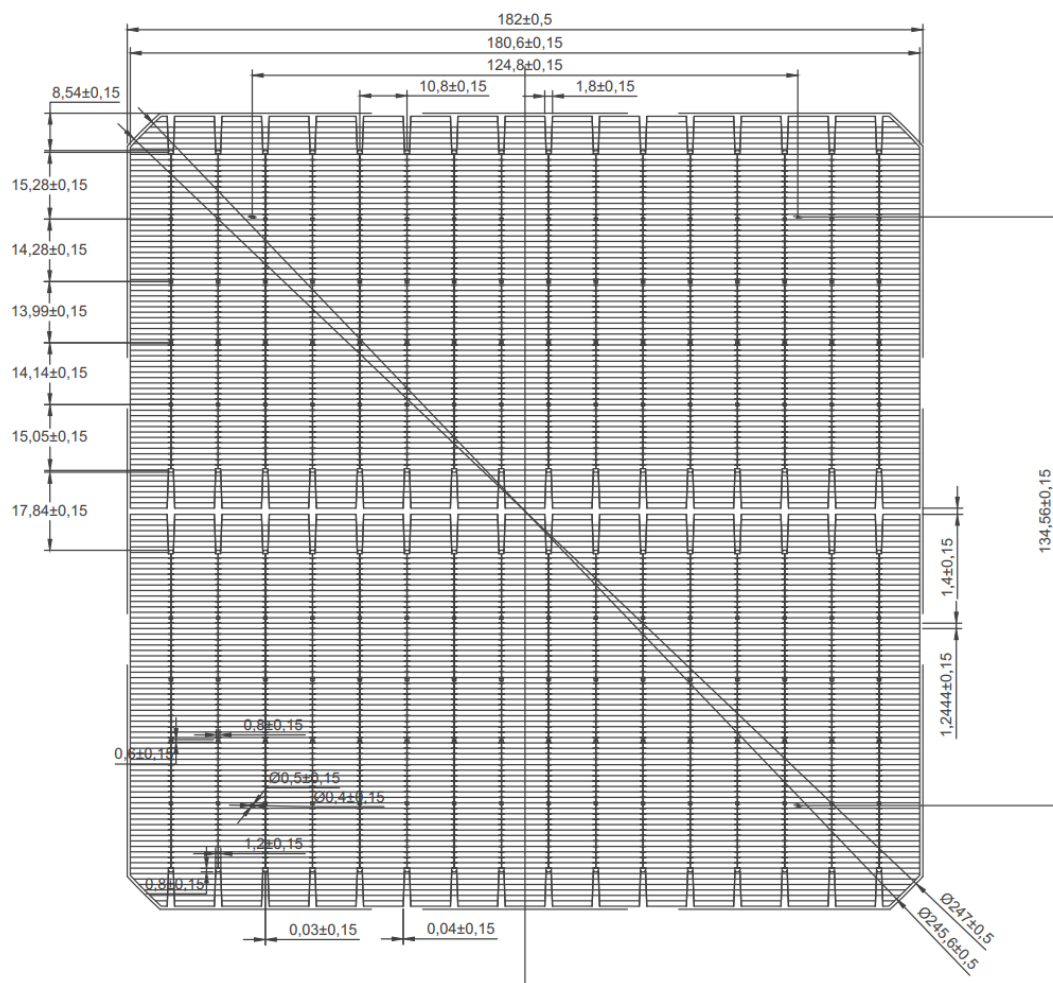
IV-Curve



Spectral response



APPEARANCE_ FRONT SIDE



APPEARANCE_ BACK SIDE

