

Product characteristics



High conversion efficiency
Front efficiency $\geq 25\%$



LID is "0"
Bifacial rate $\geq 80\%$



Superior anti-PID performance



Temperature coefficient of Power
As low as $-0.30\%/K$



Relative conversion efficiency $\geq 98\%$ under low light
($200W/m^2$)



Lower Cell to Module (CTM) Loss Rate, more suitable
for high-efficiency module



TOPCon THS-182NM-16D

Thalesolar

Temperature Coefficients

TkCurrent: $0.045\%/K$

TkVoltage: $-0.25\%/K$

TkPower: $-0.30\%/K$

Quality Control

The accuracy of the efficiency test is controlled
within $\pm 0.1\%$

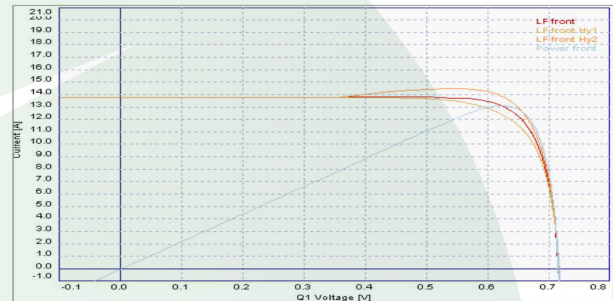
Calibration cells are traceable to Fraunhofer ISE

Electrical performance, appearance, EL 100%
automatic inspection

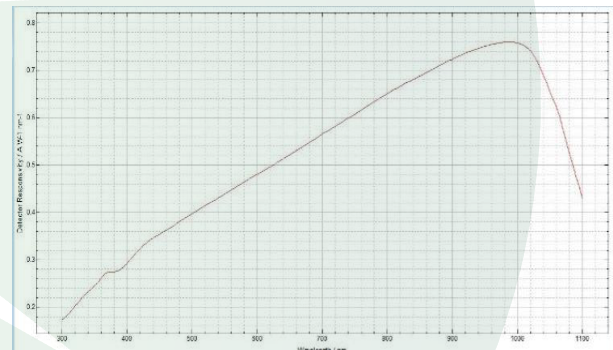
Geometry characteristics

Model	182 mono-crystalline Bifacial solar cell
Geometry	182mmx182mm ± 0.5 mm, Φ 247mm ± 0.5 mm
Thickness	130 μ m ± 13 μ m
Front	16 busbars, 12 pads, 160fingers, busbar width 0.030 ± 0.15 mm
Back	16 busbars, 12 pads, 200fingers, busbar width 0.030 ± 0.15 mm

IV Curve



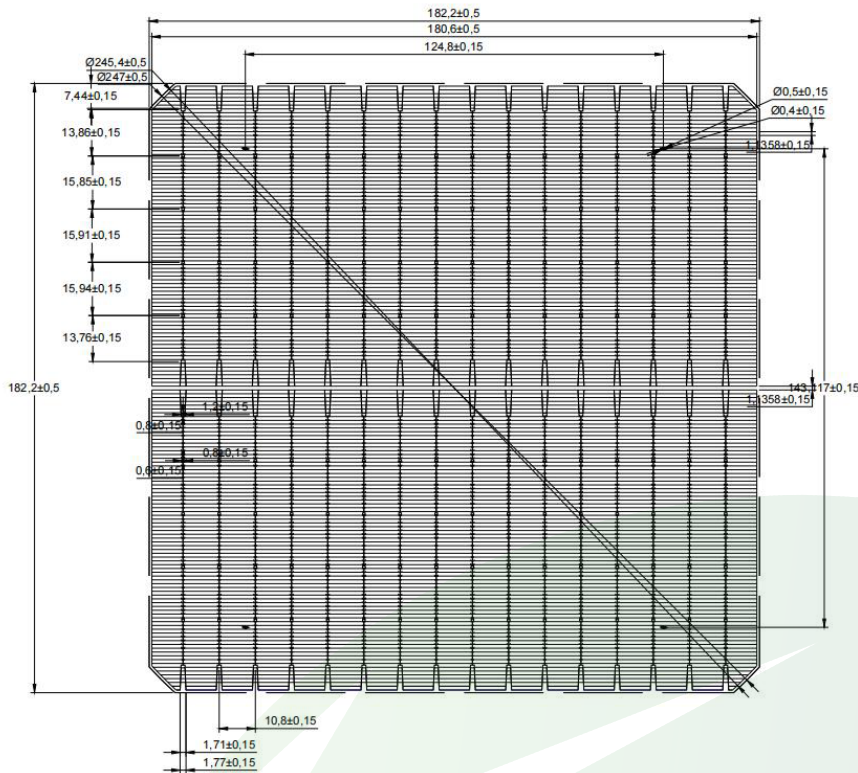
Spectral response



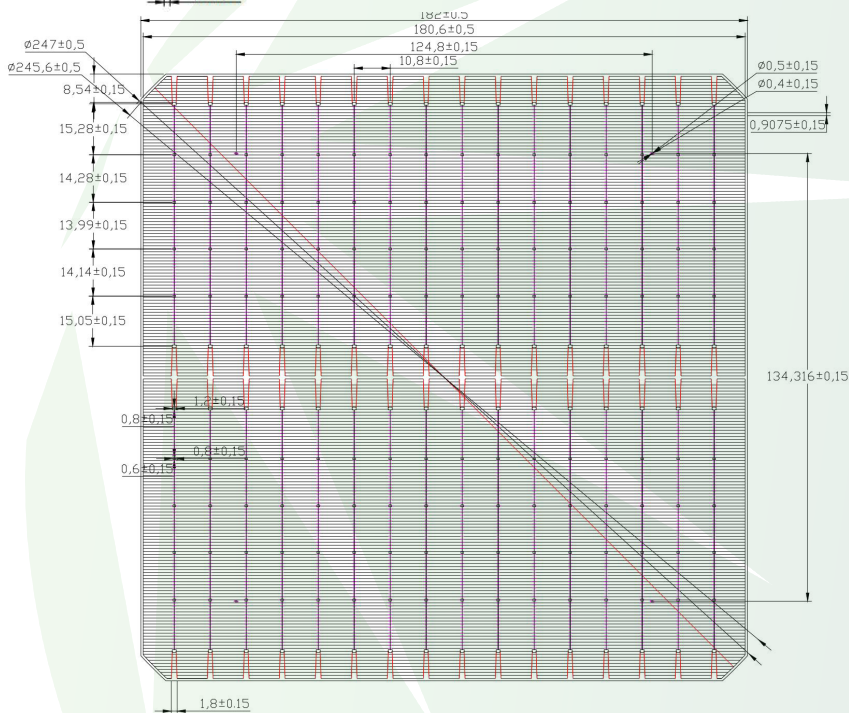
Electrical characteristics

MODEL(%)	Power Pmpp(W)	Max.Power Current Impp(A)	Short Circuit Current Isc(A)	Max.Power Voltage Vmpp(V)	Open Circuit Voltage Voc(V)
> 25.5	8.42	13.651	14.218	0.6168	0.7178
25.4~25.5	8.38	13.606	14.183	0.6159	0.7169
25.3~25.4	8.35	13.577	14.148	0.615	0.716
25.2~25.3	8.32	13.553	14.113	0.6141	0.7151
25.1~25.2	8.29	13.518	14.078	0.6131	0.7141
25.0~25.1	8.25	13.475	14.035	0.6122	0.7132
24.9~25.0	8.22	13.44	14	0.6114	0.7124
24.8~24.9	8.19	13.405	13.965	0.6106	0.7116
24.7~24.8	8.16	13.37	13.93	0.6097	0.7107
24.6~24.7	8.12	13.335	13.895	0.6089	0.7099
24.5~24.6	8.09	13.3	13.86	0.6081	0.7091
24.4~24.5	8.06	13.265	13.825	0.6073	0.7083
24.3~24.4	8.02	13.23	13.79	0.6065	0.7075
24.2~24.3	7.99	13.195	13.755	0.6059	0.7069
24.1~24.2	7.96	13.155	13.715	0.6054	0.7064
24.0~24.1	7.92	13.115	13.675	0.604	0.705
23.9~24.0	7.89	13.08	13.64	0.6032	0.7042
23.8~23.9	7.86	13.055	13.615	0.6024	0.7034
23.7~23.8	7.82	13.006	13.581	0.6016	0.7023
23.6~23.7	7.79	12.968	13.543	0.6008	0.7012
23.5~23.6	7.76	12.931	13.501	0.6	0.7004
23.4~23.5	7.73	12.893	13.478	0.5992	0.6987
23.3~23.4	7.69	12.855	13.432	0.5984	0.698
23.2~23.3	7.66	12.817	13.3919	0.5976	0.6971
23.1~23.2	7.63	12.779	13.347	0.5968	0.6964
23.0~23.1	7.59	12.74	13.303	0.596	0.6957
22.9~23.0	7.56	12.702	13.26	0.5952	0.695
22.8~22.9	7.53	12.664	13.2178	0.5944	0.6942

Cell graphics and sizes



Front



Rear