

Product characteristics



High conversion efficiency
Front efficiency \geq 23.6%



Automatic series welding, minimum peel strength \geq 1.0N/mm



Double IEC standard (192hrs, 85°C, 85% RH)
attenuation $<$ 5%



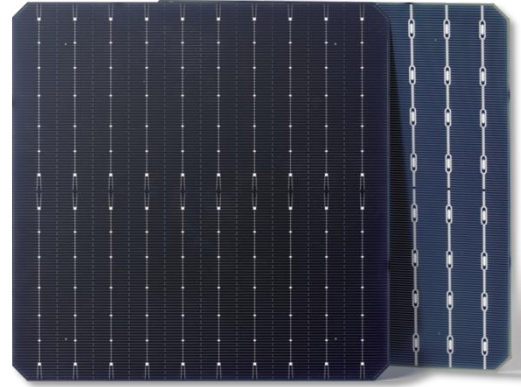
1000W/m² 5hrs, attenuation $<$ 0.6%



110°C& 0.7A& 8h, attenuation $<$ 0.6%



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



PRRC

THS-182PM-10D

Thalesolar

Temperature Coefficients

TkCurrent: 0.07%/K

TkVoltage: -0.36%/K

Quality Control

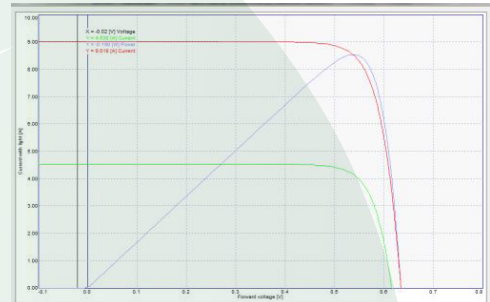
The accuracy of the efficiency test is controlled within \pm 0.1%

Electrical performance, appearance, EL 100% automatic inspection

Geometry characteristics

Model	182 mono-crystalline Bifacial solar cell (SNX-182PM-10D)
Geometry	182mmx182mm \pm 0.5mm, Φ 247mm \pm 0.5mm
Thickness	175 μ m \pm 17.5 μ m
Front	10 busbars, 14 pads, 170 fingers, busbar width 1.2 \pm 0.3mm
Back	10 busbars, 12 pads, 180 fingers, busbar width 1.5 \pm 0.3mm

IV Curve



Spectral response

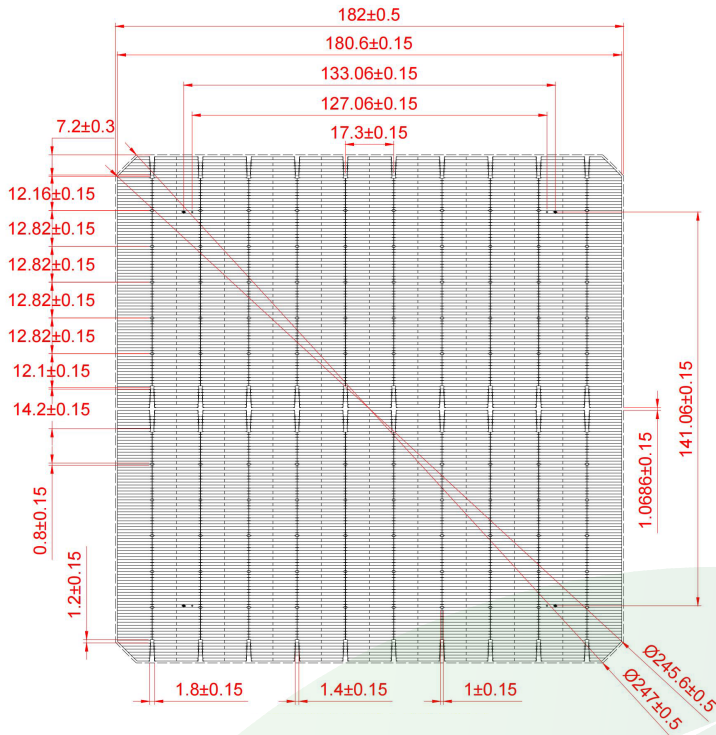
Intensity [W/m ²]	Isc*	Voc*
1000	1.0	1.000
900	0.9	0.996
500	0.5	0.969
300	0.3	0.947
200	0.2	0.928

*Ratio of Voc(Isc) at reduced intensity to Voc(Isc) at 1000 W/m²

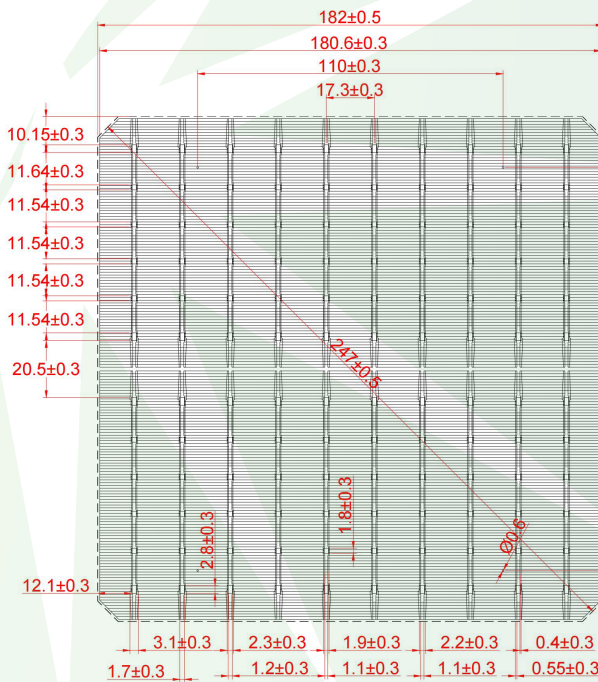
Electrical characteristics

MODEL(%)	Power Pmpp(W)	Max.Power Current Impp(A)	Short Circuit Current Isc(A)	Max.Power Voltage Vmpp(V)	Open Circuit Voltage Voc(V)
> 23.5	7.76	13.086	13.776	0.593	0.692
23.4~23.5	7.73	13.057	13.762	0.592	0.691
23.3~23.4	7.69	13.012	13.730	0.591	0.690
23.2~23.3	7.66	12.983	13.713	0.590	0.689
23.1~23.2	7.63	12.954	13.686	0.589	0.688
23.0~23.1	7.59	12.908	13.639	0.588	0.687
22.9~23.0	7.56	12.879	13.601	0.587	0.686
22.8~22.9	7.53	12.850	13.635	0.586	0.685
22.7~22.8	7.49	12.803	13.575	0.585	0.684
22.6~22.7	7.46	12.774	13.564	0.584	0.683
22.5~22.6	7.43	12.744	13.554	0.583	0.682
22.4~22.5	7.40	12.715	13.541	0.582	0.681
22.1~22.3	7.30	12.608	13.527	0.579	0.678
22.0~22.1	7.26	12.561	13.495	0.578	0.677

Cell graphics and sizes



Front



Rear