



FOUR SEAS SOLAR

TSM10T0116

Monocrystalline Bifacial TOPCon Solar Cell



Low reflection of uniform fine texturing structure



High bifaciality

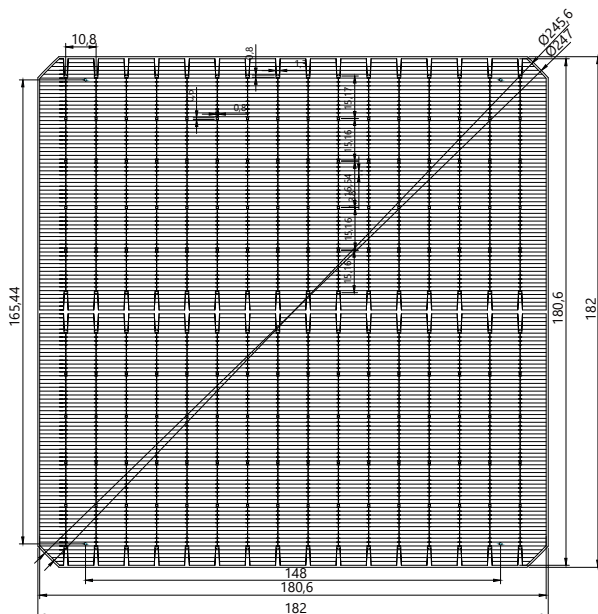


In situ doped ultra-thin poly-Si

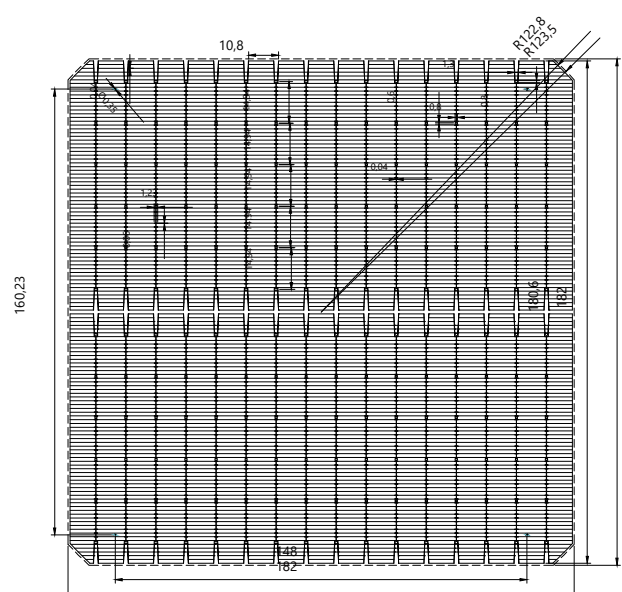


Low decay

PRODUCT APPEARANCE



Front



Back



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ELECTRICAL PERFORMANCE

Eff(%)	Pmpp(W)	Ump(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
25.0	8.25	0.634	13.027	0.720	13.719	83.56
24.9	8.22	0.632	13.016	0.719	13.699	83.46
24.8	8.19	0.630	13.005	0.718	13.680	83.36
24.7	8.16	0.628	12.993	0.717	13.660	83.26
24.6	8.12	0.626	12.982	0.716	13.640	83.16
24.5	8.09	0.624	12.971	0.715	13.620	83.06
24.4	8.06	0.622	12.960	0.714	13.600	82.96
24.3	8.02	0.620	12.948	0.713	13.579	82.86
24.2	7.99	0.618	12.937	0.712	13.559	82.76
24.1	7.96	0.616	12.925	0.711	13.538	82.66
24.0	7.92	0.614	12.913	0.710	13.517	82.56

Standard Test Conditions: 1000W/m², AM1.5, 25 °C

APPEARANCE AND STRUCTURE

Substrate material	N-type mono-crystalline silicon wafer-TOPCon
Cell thickness	130μm±13μm
Dimension	182mm*182mm±0.25mm
Diagonal	Φ247±0.25mm
Front(-)	16 bus bars, 160 lines, Silicon oxide + blue silicon nitride compound anti reflection coating
Back (+)	16 bus bars, 200 lines, Silicon oxide + blue silicon nitride compound anti reflection coating

TEMPERATURE COEFFICIENT

TkPower	-(0.30±0.02)%/k
TkVoltage	-(0.25±0.03)%/k
TkCurrent	+(0.045±0.015)%/k

LIGHT INDUCED DEGRADATION

Using Xenon lamp (Irradiance of 1000W/m², with spectrum AM 1.5) to irradiate test cells, after a total irradiation of 5 kwh/m², the degradation of maximum output power of cells is ≤2%

ANTI-PLD

Potential induced Degradation(-1500V, 192h): ≤5%

PACKAGING, STORAGE

Solar cells are closely packed with soft sponge around and heat shrink is used around the box unit, Outer packing box must have shock buffer, to be suitable for long-distance delivery.

After packaging, cells should be stored indoors in the conditions of humidity below 60%, and temperature 20±10 °C, Cells should be sampling inspected again if the storage time over 180 days.



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