



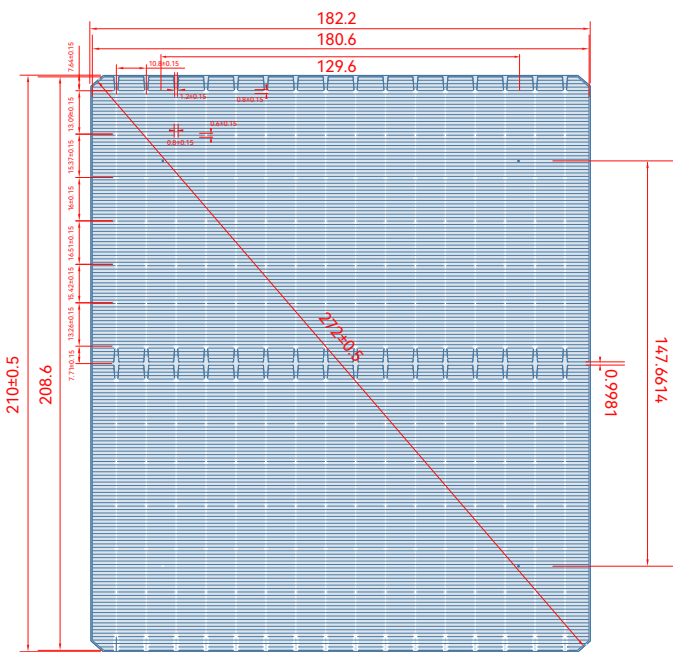
N-type 16bb Topcon Solar cell

210R size

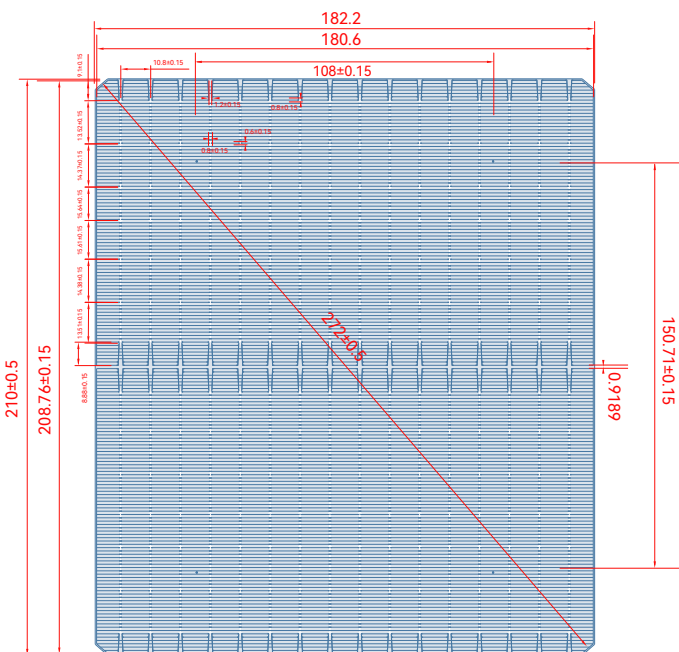
PRODUCT SPECIFICATION

Model	G12R-16BB
Size	210mm*182.3mm±0.5mm/Φ272±0.5mm
Thickness	135±13.5μm

PRODUCT APPEARANCE



Front



Back

CELL SPECIFICATION PARAMETERS

	Item	Specification	Tolerance	Unit
Front	Finger quantity	210	-	Line
	Front busbar width	1.2*0.8/0.8*0.6	±0.3	mm
	Distance between busbars	10.8	±0.15	mm
Back	Back finger quantity	228	-	Line
	Back busbar width	1.2*0.8/0.8*0.6	±0.3	mm
	Distance between back busbars	10.8	±0.15	mm

ELECTRICAL PERFORMANCE

Efficiency	Pmpp(W)	Ump(V)	I _{mp} (A)	U _{oc} (V)	I _{sc} (A)	FF(%)
2590	9.89	0.6367	15.5331	0.7284	15.7806	86.04
2580	9.85	0.6354	15.5048	0.7273	15.7672	85.91
2570	9.81	0.6343	15.4715	0.7264	15.7384	85.84
2560	9.78	0.6332	15.4380	0.7248	15.7295	85.74
2550	9.74	0.6321	15.4045	0.7224	15.7280	85.70
2540	9.70	0.6308	15.3757	0.7209	15.7108	85.63
2530	9.66	0.6296	15.3444	0.7189	15.7017	85.59
2520	9.62	0.6274	15.3373	0.7175	15.6907	85.47
2510	9.58	0.6258	15.3155	0.7164	15.6803	85.32
2500	9.55	0.6241	15.2960	0.7158	15.6500	85.21

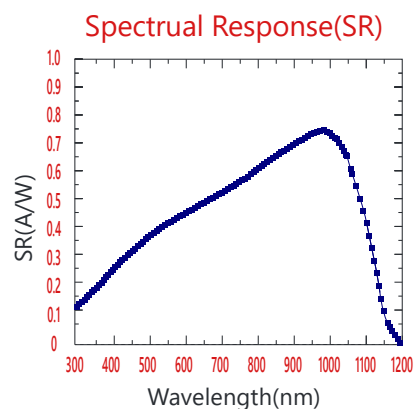
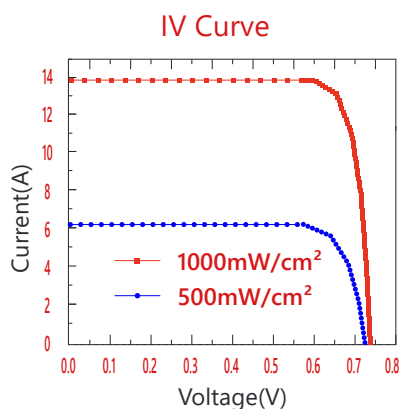
Standard Test Conditions: 1000W/m², AM1.5, 25 °C

STANDARD TEST CONDITION(STC)

a.Intensity	1000W/m ²
b.Spectrum	CTL1-3A
c.Temperature	25 °C

STANDARD TEST CONDITION(STC)

a.Voc	-0.26%/°C
b.Isc	-0.046%/°C
c.Pm	-0.30%/°C



PT High Sil Energy

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Batu Aji, Kota Batam, Provinsi Kepulauan Riau

TSM10M0110 PLUS

V.202510