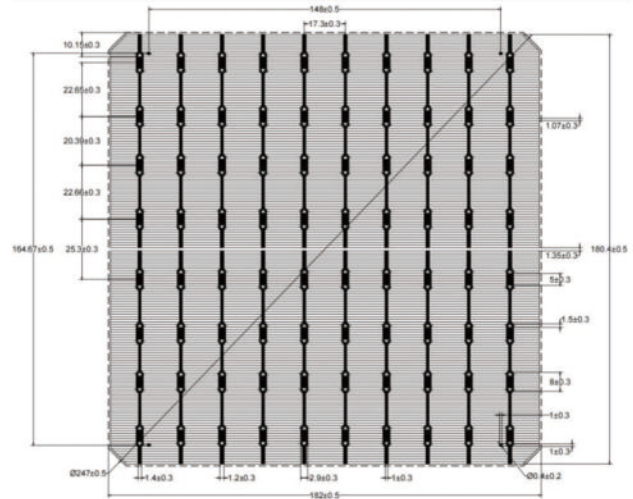
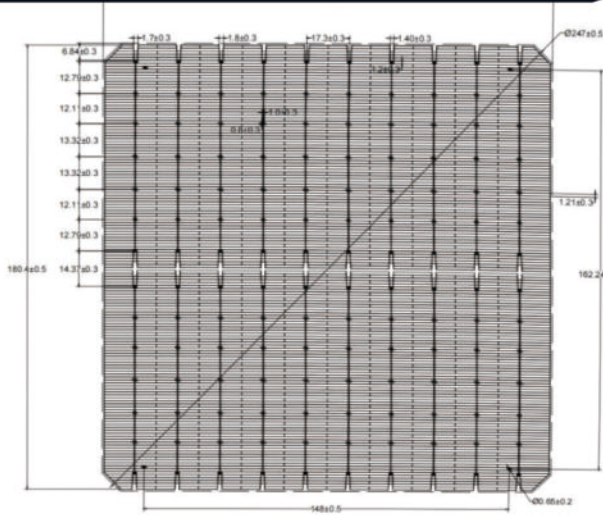


PTJ-PM1010



Solderability

Solderability

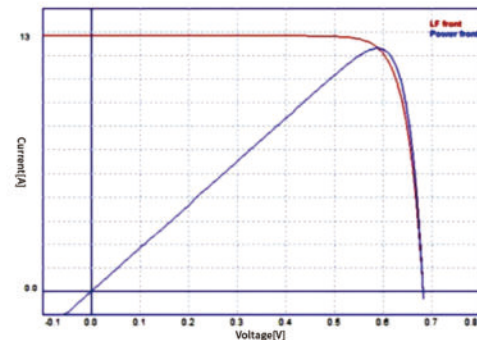
≥1.4N/mm

The results may be influenced by electrode, welding method and conditions

Light Intensity Reliability

Intensity(W/m ²)	1000	800	900	600	400
Voc	1.000	0.991	0.996	0.988	0.962
Isc	1.000	0.803	0.903	0.602	0.403

Iv Curve



Technical Data And Design

Size	182mm * 182mm ± 0.5mm	Voltage: -0.36 %/K
Thickness	175±17.5μm	Current: +0.07%/K
Front (-)	10 * 0.06 ± 0.03mm main gate line (silver), 150 ± 15 secondary gate lines blue (dark blue), anti-reflective film (silicon nitride)	Power: -0.38%/K
Back (+)	Back electrode width (silver) 1.2 ± 0.3mm, 170 ± 17 sub-grid lines	Rsh>50Ω, Irev2≤1.0A

Back Electrical Performance Parameters

ProductivenessEff(%)	>16	15.5-16	>15-15.5	<15
Maximum output powerPmpp(W)	5.28	5.18	5.02	4.89
Maximum output voltage Umpp(V)	0.578	0.572	0.565	0.559
Maximum output current Impp(A)	9.136	9.068	8.877	8.743
Open-circuit voltageUoc(V)	0.676	0.675	0.673	0.671
Short-circuit current Isc(A)	10.119	10.056	9.989	9.903

Front Electrical Performance Parameters

ProductivenessEff(%)	23.1	23.2	23.0	22.9	22.8	22.7	22.6	22.5	22.4	22.3	22.2
Maximum output powerPmpp(W)	7.63	7.66	7.59	7.56	7.53	7.49	7.46	7.43	7.40	7.36	7.33
Maximum output voltage Umpp(V)	0.590	0.591	0.589	0.588	0.587	0.586	0.585	0.584	0.582	0.580	0.579
Maximum output current Impp(A)	12.924	12.965	12.888	12.850	12.819	12.785	12.755	12.729	12.709	12.685	12.652
Open-circuit voltageUoc(V)	0.691	0.692	0.690	0.689	0.688	0.687	0.686	0.684	0.683	0.681	0.681
Short-circuit current Isc(A)	13.584	13.593	13.577	13.568	13.560	13.554	13.548	13.541	13.534	13.528	12.501
Fill factor FF(%)	81.26	81.49	81.05	80.85	80.64	80.45	80.26	80.16	80.03	79.90	79.78