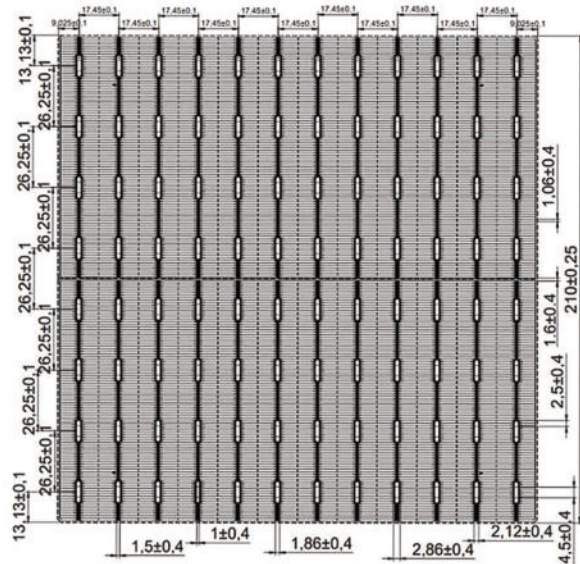
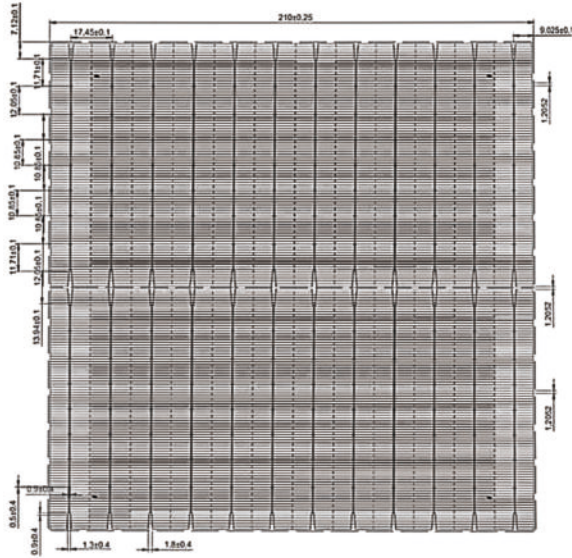


PTJ-PM1212



Solderability

Solderability

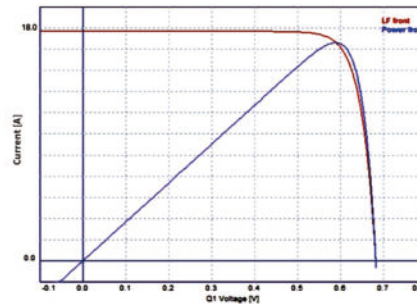
≥1.1N/mm

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

Light Intensity Reliability

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

Iv Curve



Technical Data And Design

Size	210mm*210mm±0.25mm	Voltage: -0.36 %/K
Thickness	180±20μm	Current: +0.07%/K
Front (-)	12*0.06±0.04mm main gate line (silver), 174±15 secondary gate lines blue (dark blue), anti-reflective film (silicon nitride)	Power: -0.38%/K
Back (+)	Back electrode width (silver) , 2.12±0.4mm sub-grid lines	Rsh≥50Ω, Irev2≤0.5A

Back Electrical Performance Parameters

ProductivenessEff(%)	>16	15.5-16	>15-15.5	<15
Maximum output powerPmpp(W)	7.06	6.92	6.70	6.53
Maximum output voltage Umpp(V)	0.582	0.579	0.572	0.565
Maximum output current Imp(A)	12.130	11.952	11.713	11.558
Open-circuit voltageUoc(V)	0.677	0.675	0.673	0.672
Short-circuit current Isc(A)	13.361	13.352	13.244	13.124

Front Electrical Performance Parameters

ProductivenessEff(%)	23.1	23.0	22.9	22.8	22.7	22.6	22.5	22.4	22.3	22.2	22.1
Maximum output powerPmpp(W)	10.18	10.14	10.10	10.05	10.01	9.97	9.92	9.88	9.83	9.79	9.75
Maximum output voltage Umpp(V)	0.590	0.589	0.587	0.586	0.584	0.583	0.581	0.579	0.577	0.575	0.574
Maximum output current Imp(A)	17.261	17.216	17.206	17.151	17.140	17.101	17.074	17.064	17.036	17.026	16.986
Open-circuit voltageUoc(V)	0.690	0.689	0.688	0.687	0.686	0.685	0.685	0.684	0.682	0.681	0.680
Short-circuit current Isc(A)	18.186	18.166	18.140	18.125	18.108	18.088	18.062	18.049	18.030	18.016	17.995
Fill factor FF(%)	81.15	81.01	80.93	80.71	80.58	80.46	80.18	80.02	79.94	79.79	79.68