

P-Type PERC STD-PM1212



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

Size : 210mm*210mm+0.25mm **Thickness :** 180±20µm **Solderability:** ≥1.1N/mm

Technical Data And Design

Power: -0.38%/K	Voltage: -0.36 %/K	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)		
Back (+): Back electrode width (silver) 2.21 ± 0.4mm, ub-grid lines		Rsh≥50Ω, Irev2≤0.5A

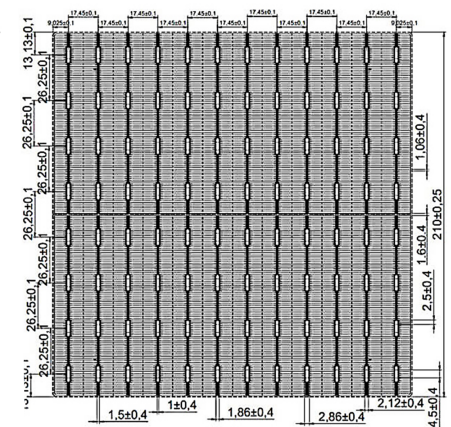
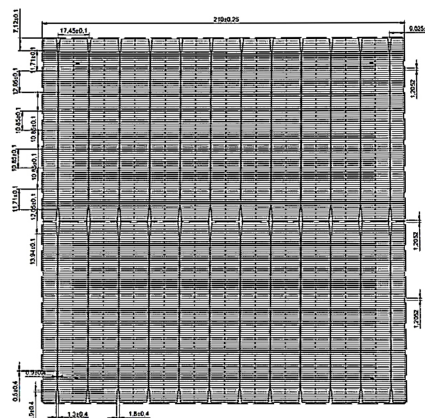
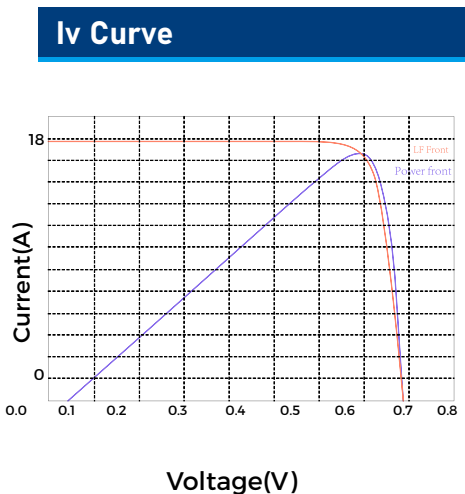
Front Electrical Performance Parameters

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 Ump(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 currentImp(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

Back Electrical Performance Parameters

ProductivenessEff(%)	>16	15.5-16	>15-15.5	<15	Intensity(w/m2)	Voc	Isc
Maximum output powerPmpp(W)	7.06	6.92	6.70	6.53	1000	1.000	1.000
Maximum output voltage Ump(V)	0.582	0.579	0.572	0.565	900	0.996	0.903
Maximum output currentImp(A)	12.130	11.952	11.713	11.558	800	0.991	0.803
Open-circuit voltageUoc(V)	0.677	0.675	0.673	0.672	600	0.988	0.602
Short-circuit current Isc(A)	13.361	13.352	13.244	13.124	400	0.962	0.403

Light Intensity Reliability



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