



N-Type TOPCON STD-TM1218

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

Size : 210mm*210mm0.25mm **Thickness :** 170±20μm **Solderability** ≥0.5N/mm

Technical Data And Design

Power: -0.32%/K	Voltage: -0.26 %/K	Current: +0.046%/K
Front (-): 18 * 0.04 ± 0.03mm main gate line (silver), 120 ± 12 secondary gate lines blue (dark blue), anti-reflective film (silicon nitride)		
Back (+): 18 * 0.04 ± 0.03mm Back electrode width (silver) 138 ± 14 mm sub-grid lines		Rsh≥35Ω, Irev2≤1.0A

Front Electrical Performance Parameters

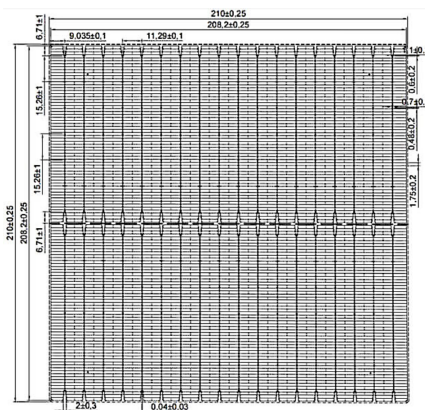
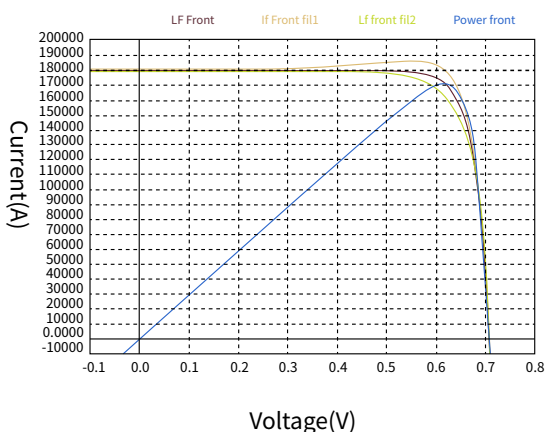
ProductivenessEff(%)	24.4	24.3	24.2	24.1	24.0	23.9	23.8	23.7	23.6	23.5	23.4
Maximum output powerPmpp(W)	10.76	10.72	10.67	10.63	10.58	10.54	10.49	10.45	10.41	10.36	10.32
Maximum output voltage Ump(V)	0.623	0.621	0.619	0.619	0.617	0.616	0.615	0.614	0.612	0.610	0.609
Maximum output currentImpp(A)	17.343	17.313	17.264	17.217	17.195	17.131	17.110	17.085	17.053	17.032	16.994
Open-circuit voltageUoc(V)	0.717	0.715	0.713	0.712	0.711	0.710	0.709	0.708	0.707	0.706	0.705
Short-circuit current Isc(A)	18.119	18.113	18.101	18.096	18.032	17.996	17.920	17.914	17.885	17.867	17.832
Fill factor FF(%)	82.82	82.74	82.68	82.48	82.55	82.48	82.60	82.40	82.30	82.15	82.08

Back Electrical Performance Parameters

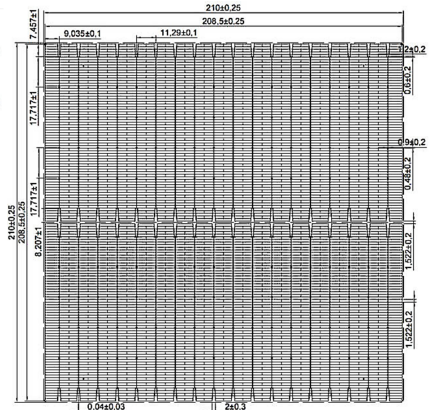
ProductivenessEff(%)	>20.5%	20.3%-20.5%	20.1%-20.3%	<20.1%	Intensity(w/m2)	Voc	Isc
Maximum output powerPmpp(W)	8.95	8.91	8.86	8.82	1000	1.000	1.000
Maximum output voltage Ump(V)	0.617	0.616	0.615	0.614	900	0.996	0.903
Maximum output currentImpp(A)	14.508	14.460	14.412	14.364	800	0.991	0.803
Open-circuit voltageUoc(V)	0.703	0.702	0.701	0.700	600	0.988	0.602
Short-circuit current Isc(A)	15.240	15.196	15.153	15.125	400	0.962	0.403

Light Intensity Reliability

Iv Curve



FRONT



BACK

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