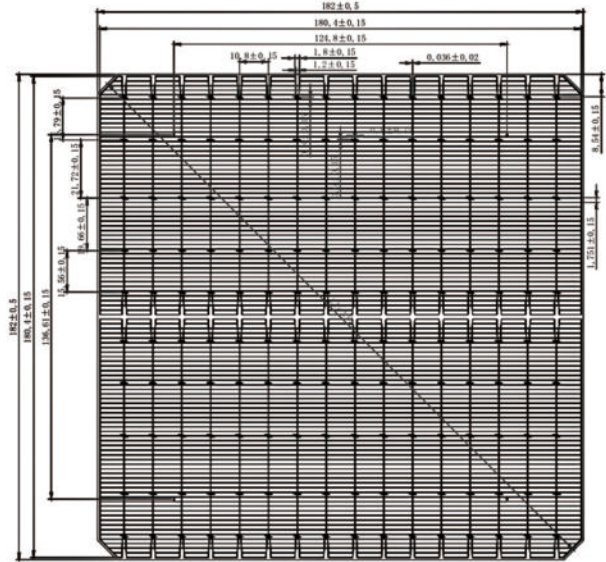
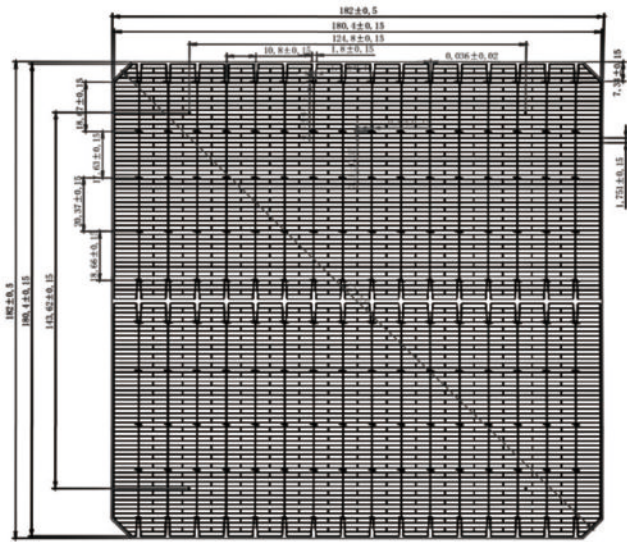


PTJ-TM1016



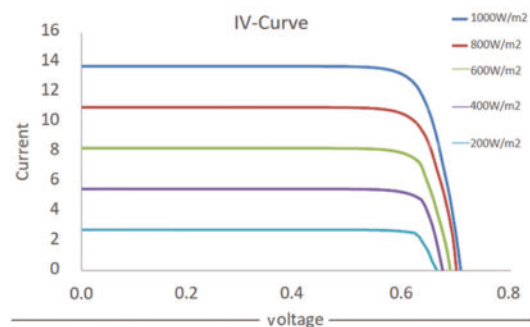
Temperature Coefficients

Current Temperature Coefficient	$\alpha(I_{sc})$	0.048%/K
Voltage Temperature Coefficient	$\beta(V_{oc})$	-0.30%/K
Power Temperature Coefficient	$\gamma(P_{max})$	-0.38%/K

Technical Requirements

Size	182mm*182mm±0.5mm
Thickness	160um±16um 165±16.5um
Front (-)	0.036±0.02mm bus bars(silver)
Back (+)	0.036±0.02mm bus bars(silver) black anti-reflecting coating(silicon nitride)

IV Curve



Electrical Characteristics

No.	Eff (%)	Pmpp(W)	Ump(V)	Imp(A)	Uoc(V)	Isc(A)	FF(%)
1	25.0	8.255	0.610	13.54	0.709	14.20	82.03
2	24.9	8.221	0.608	13.52	0.710	14.21	81.46
3	24.8	8.188	0.605	13.55	0.707	14.17	81.70
4	24.7	8.155	0.604	13.49	0.701	14.16	82.09
5	24.6	8.122	0.601	13.51	0.698	14.13	82.31
6	24.5	8.089	0.599	13.50	0.703	14.19	81.06
7	24.4	8.057	0.597	13.49	0.695	14.15	81.91
8	24.3	8.024	0.596	13.45	0.697	14.14	81.44
9	24.2	7.991	0.595	13.42	0.691	14.11	82.00
10	24.1	7.958	0.593	13.41	0.692	14.09	81.64
11	24.0	7.925	0.600	13.21	0.705	14.16	79.40
12	23.9	7.894	0.597	13.23	0.705	14.17	78.97
13	23.8	7.861	0.591	13.29	0.706	14.23	78.26
14	23.7	7.825	0.603	12.98	0.704	14.19	78.36
15	23.6	7.794	0.583	13.36	0.709	14.20	77.45