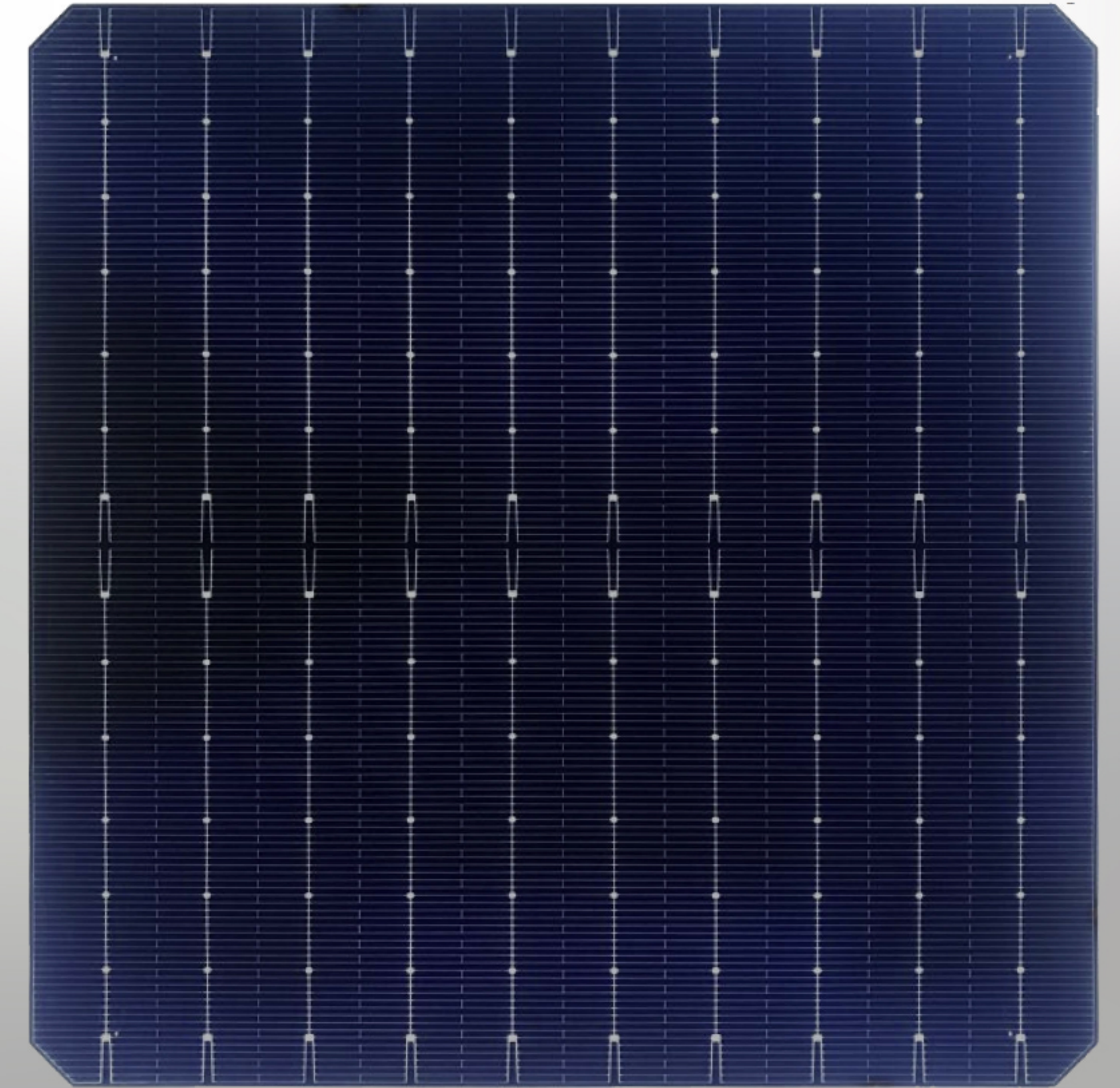


DM Solar Cell

DM-P-182-10BB

Mono-crystalline Bi-facial Solar Cell



Technical Data And Design

Dimension	182mm x 182 mm ± 0.5mm, φ 247 mm ± 0.25mm
Thickness (si)	160 μm ± 20 μm
Front Side (-)	Blue composite anti-reflection coating (Silicon dioxide+ Silicon nitride);10 bus bars, 0.06+0.015mm width ;The front side of solar cell is designed as a half sheet; The number of the fingers is 148.
Back Side (+)	Alumina and silicon nitride composite passivation layer; 1.4(+0.3, -0.1)mm width silver anode.The number of aluminum fingers is 170.

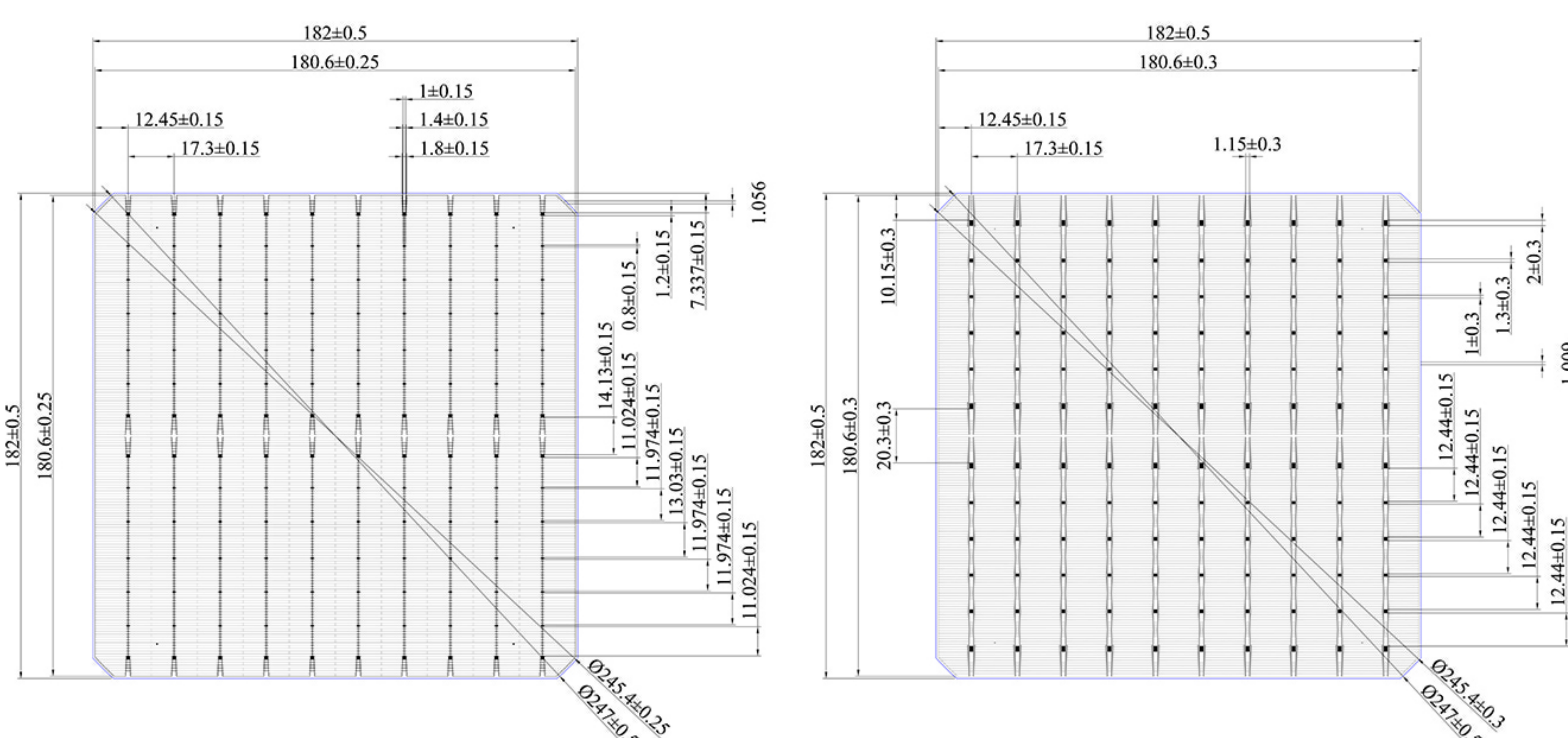
Temperature coefficients

TKVoc (%/K)	-0.36
Tklsc (%/K)	+0.07
TkPower (%/K)	-0.38

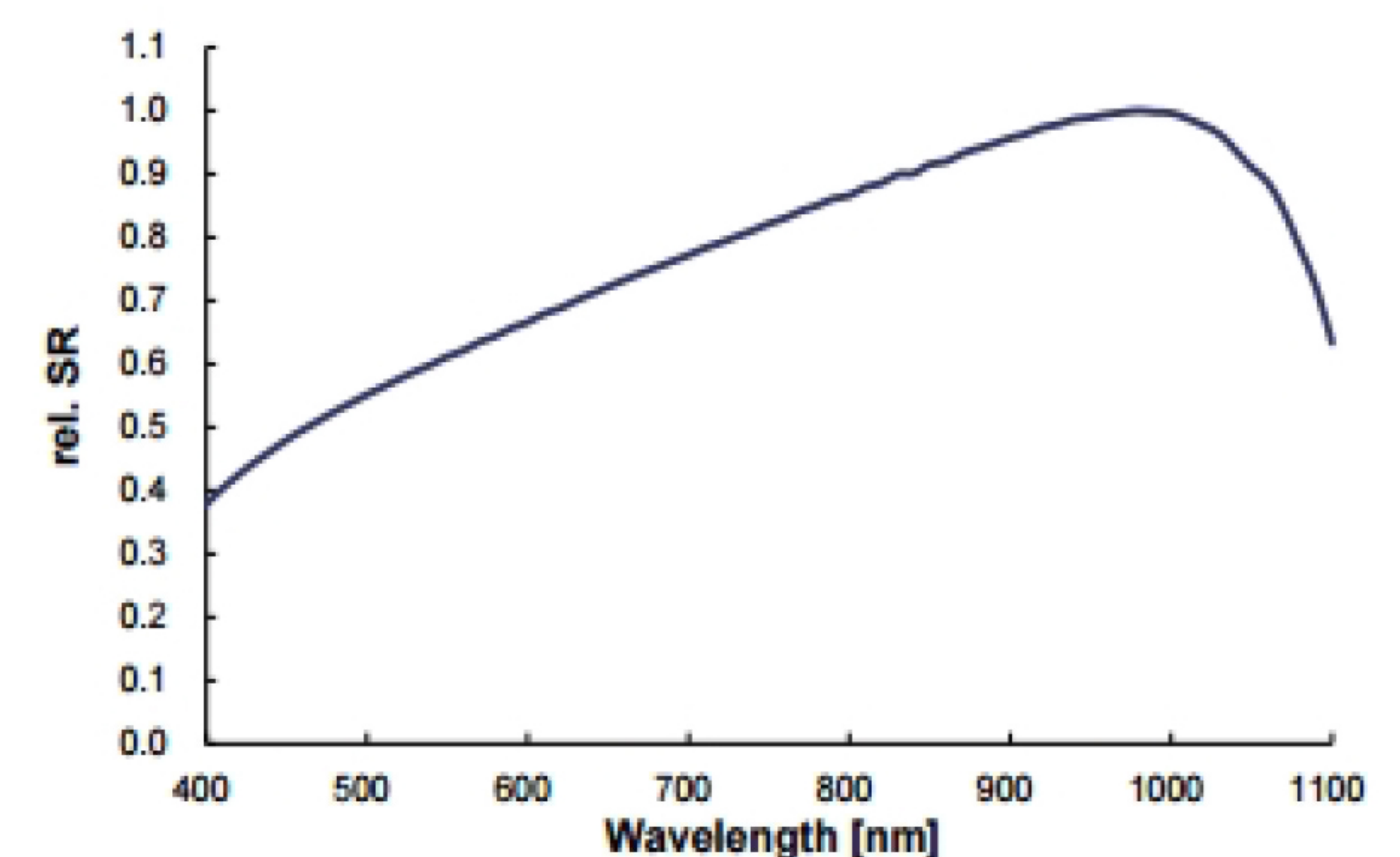
Light Intensity Dependence

Intensity (W/m ²)	Voc(%)	Isc(%)
1000	100.0	100.0
800	99.0	80.1
600	97.7	60.0
200	92.3	19.5

Product Appearance



Front Spectral Response(QE)



DM Solar Cell

Electrical Characteristics

NO.	Efficiency Range (%)	Rated Power (Wp)	*Maximum Power Voltage (V)	*Maximum Power Current (A)	*Open Circuit Voltage (V)	*Short Circuit Current (A)
DM-P-182M-234	23.40%	7.73	0.603	12.81	0.693	13.45
DM-P-182M-233	23.30%	7.69	0.602	12.78	0.692	13.44
DM-P-182M-232	23.20%	7.66	0.601	12.75	0.691	13.43
DM-P-182M-231	23.10%	7.63	0.600	12.72	0.690	13.42
DM-P-182M-230	23.00%	7.59	0.599	12.67	0.689	13.41
DM-P-182M-229	22.90%	7.56	0.598	12.64	0.688	13.40
DM-P-182M-228	22.80%	7.53	0.597	12.61	0.687	13.39
DM-P-182M-227	22.70%	7.49	0.596	12.57	0.686	13.38
DM-P-182M-226	22.60%	7.46	0.595	12.54	0.685	13.37
DM-P-182M-225	22.50%	7.43	0.594	12.51	0.684	13.36
DM-P-182M-224	22.40%	7.40	0.593	12.48	0.683	13.35

Test condition : 1000 W / m², AM 1.5, 25°C

Technical parameters above-mentioned subjects to technical changes and tests. DUOMAX Solar reserves the right of final interpretation

BACK EFFICIENCY DISTRIBUTION

NO.	Range of EFF. (%)	Rated Power (Wp)	*Maximum Power Voltage (V)	*Maximum Power Current (A)	*Open Circuit Voltage (V)	*Short Circuit Current (A)
DM-P-182M-165	> 16.50%	5.45	0.564	9.659	0.657	10.436
DM-P-182M-160	16.00%-16.50%	5.28	0.562	9.399	0.655	10.174
DM-P-182M-155	15.50%-16.00%	5.12	0.560	9.138	0.653	9.917
DM-P-182M-150	15.00%-15.50%	4.95	0.559	8.859	0.650	9.662

Test condition : 1000 W / m², AM 1.5, 25°C

Technical parameters above-mentioned subjects to technical changes and tests. DUOMAX Solar reserves the right of final interpretation

FRONT IV CURVE

