

SFT-182P-10BB

P-Type PERC

Technical characteristics

Product Specification

Mono Perc 182 bifacial solar cell (SFT-182P-10BB)

Dimension

182mmx182mm±0.5mm, Φ247.28mm±0.5mm

Thickness

160-10/+20μm

Front

10 bus bars(silver) with width0.90±0.05mm,170fingers, Silicon oxide+blue silicon nitride compound anti-reflection coating(PID Free), half sheet design of front side

Back

10 bus bars with width1.5±0.1mm, 180fingers, Passivated Emitter (AlOx and SiNx dual layer) rear contact

product characteristics

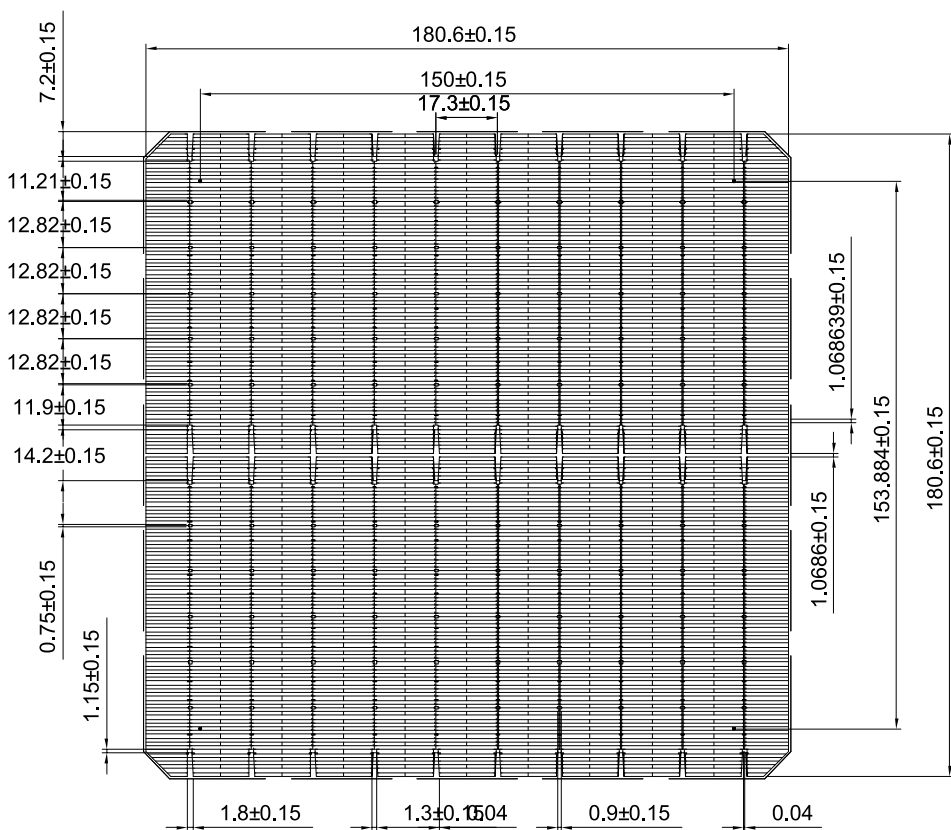
 High Conversion Efficiency, front efficiency≥23.2%

 Bifacial rate≥74%

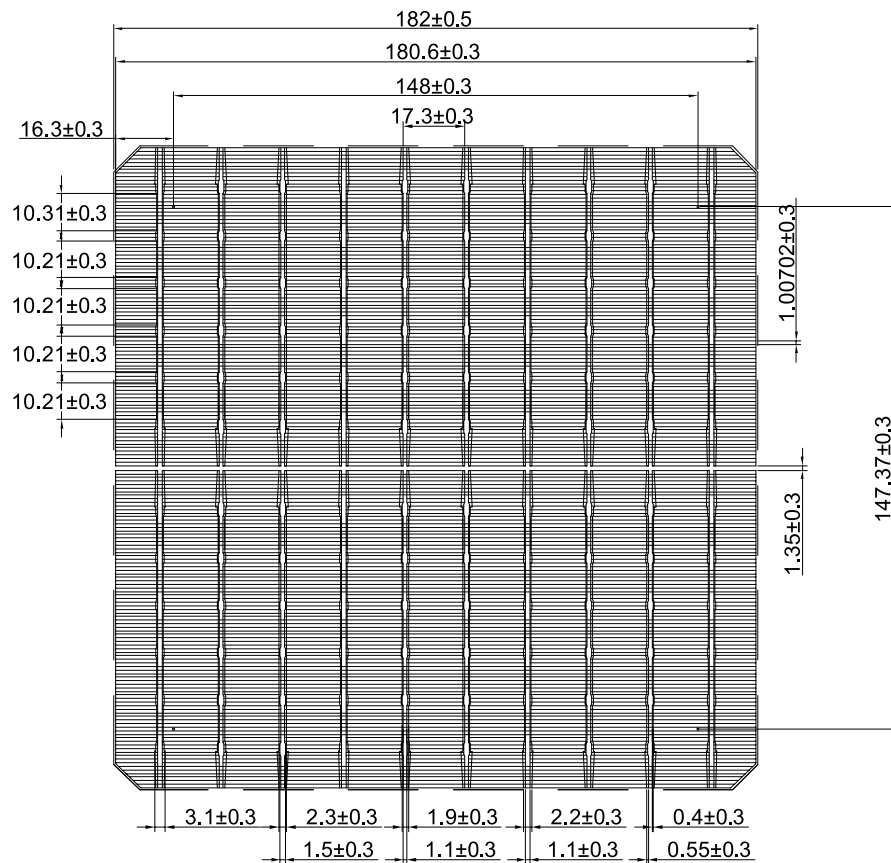
 superior anti-PID performance

 temperature coefficient of power as low as -0.38%/K

Product appearance



Front



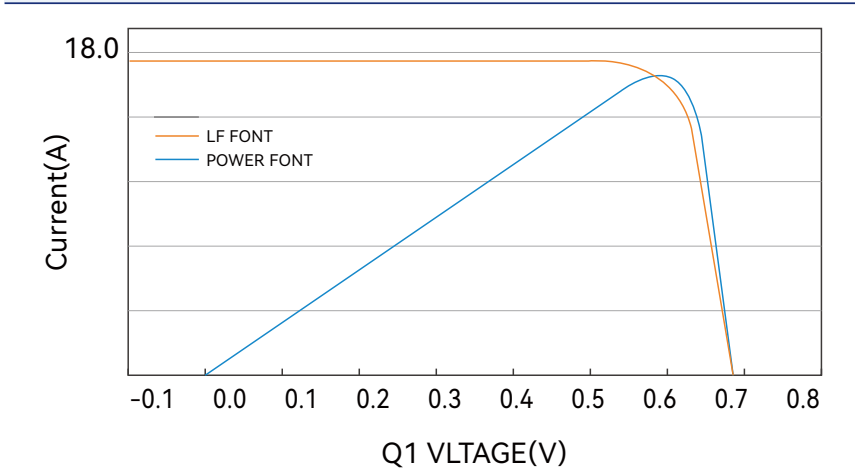
Back

Front Electrical Characteristic

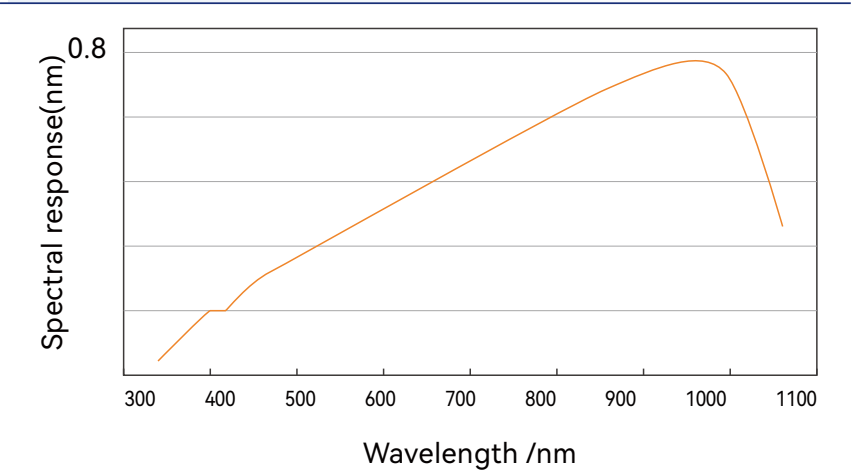
No.	Eff(%)	Power Pmpp(W)	Max. Power Current Impp(A)	Short Circuit Current Isc(A)	Open Circuit Voltage Voc(V)	FF(%)
1	23.30	7.69	13.02	13.649	0.591	0.694
2	23.20	7.66	12.99	13.627	0.589	0.693
3	23.10	7.63	12.97	13.619	0.588	0.692
4	23.00	7.59	12.96	13.612	0.586	0.691
5	22.90	7.56	12.94	13.607	0.584	0.689
6	22.80	7.53	12.91	13.579	0.583	0.688
7	22.70	7.49	12.90	13.577	0.581	0.687
8	22.60	7.46	12.87	13.534	0.580	0.687
9	22.50	7.43	12.83	13.510	0.579	0.685
10	22.40	7.40	12.83	13.500	0.576	0.683
11	22.30	7.36	12.74	13.439	0.578	0.685
12	22.20	7.33	12.76	13.486	0.575	0.685
13	22.10	7.30	12.70	13.426	0.574	0.682
14	22.00	7.26	12.70	13.402	0.572	0.682

*Standard Test Condition(STC):1000W/m², AM1.5, 25°C, The above technical parameters are subject to technical changes and tests, SAFETY NEW ENERGY reserves the right of final interpretation

IV Curve



Spectral Response



Temperature coefficient

TkCurrent:	0.045%/K
TkVoltage:	-0.25%/K
TkPower:	-0.32 %/K

Quality control

accuracy of efficiency test control in $\pm 0.1\%$
100% automatic inspection of electrical performance, appearance and EL
Fraunhofer ISE Calibration cells are traceable to Fraunhofer ISE

