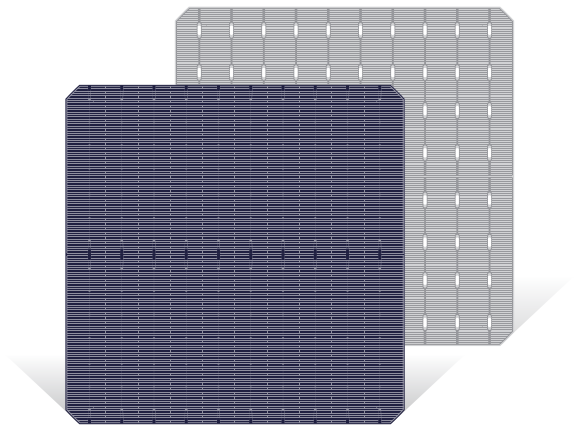




# MONO-CRYSTALLINE SILICON SOLAR CELL

182mm x 182mm



## Mechanical Characteristics

<b>Format</b>	182mm×182mm±0.25mm
<b>Thickness</b>	180um±20um
<b>Front (-)</b>	10BB, Distance between busbars 17.3±0.15mm Silicon nitride anti-reflection coating
<b>Back (+)</b>	Distance between back busbars 17.3±0.15mm

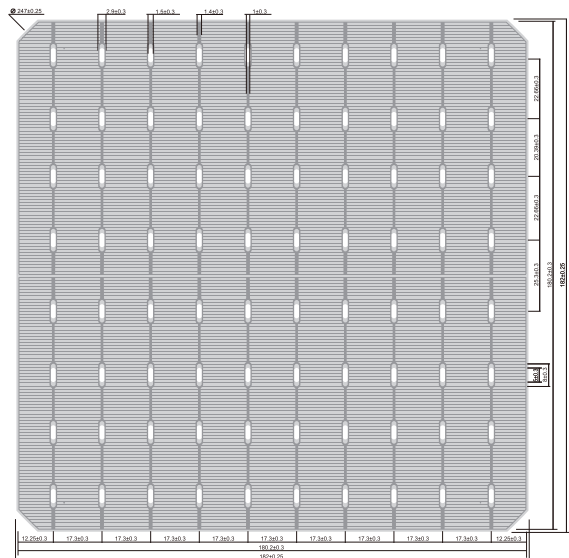
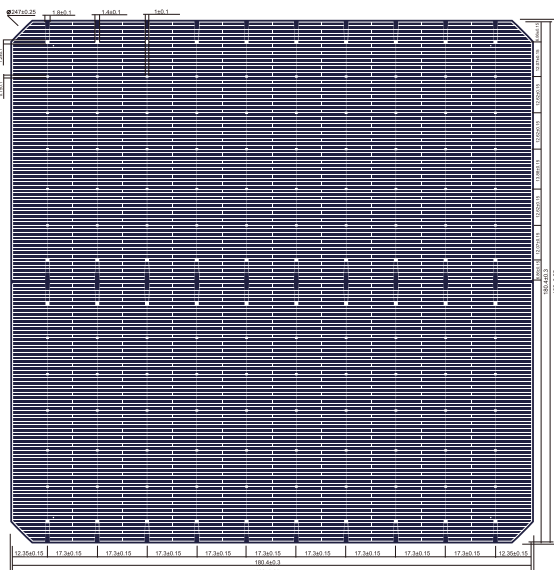
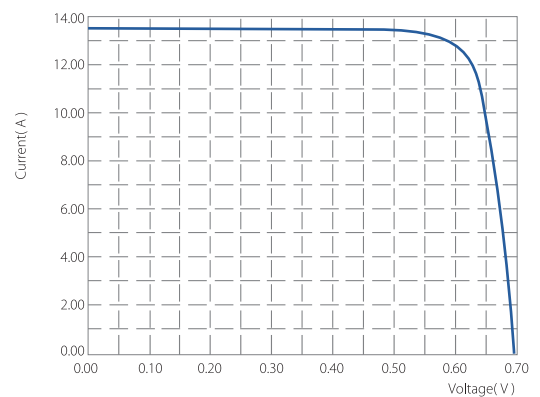
## Temperature Characteristics

<b>Current Temperature Coefficient-Isc</b>	TkCurrent: +0.06%/K
<b>Voltage Temperature Coefficient-Voc</b>	TkVoltage: -0.30%/K
<b>Power Temperature Coefficient-Pmax</b>	TkPower: -0.39%/K

## Electrical Characteristics under STC\*

<b>Efficiency (%)</b>	23.3	23.1	22.9	22.7	22.5	22.3
<b>Power-Ppm (W)</b>	7.69	7.63	7.56	7.49	7.43	7.36
<b>Current at Maximum Power-Imp(A)</b>	12.539	12.495	12.401	12.324	12.245	12.174
<b>Short Circuit Current-Isc(A)</b>	13.583	13.551	13.479	13.419	13.397	13.358
<b>Voltage at Maximum Power-Vmp(V)</b>	0.613	0.611	0.610	0.608	0.607	0.605
<b>Open Circuit VoltageVoc(V)</b>	0.690	0.688	0.687	0.686	0.685	0.684

I-V CURVE



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# 182M-10D40

# P-TYPE PERC

## Product Characteristics



### Internal Friction Reduction

Half-piece design internal friction reduction by 1/4



### PID Resistance

Superior anti-PID performance



### Lower Sealing Damage

Lower Cell to Module (CTM) Loss Rate, more suitable for high-efficiency module



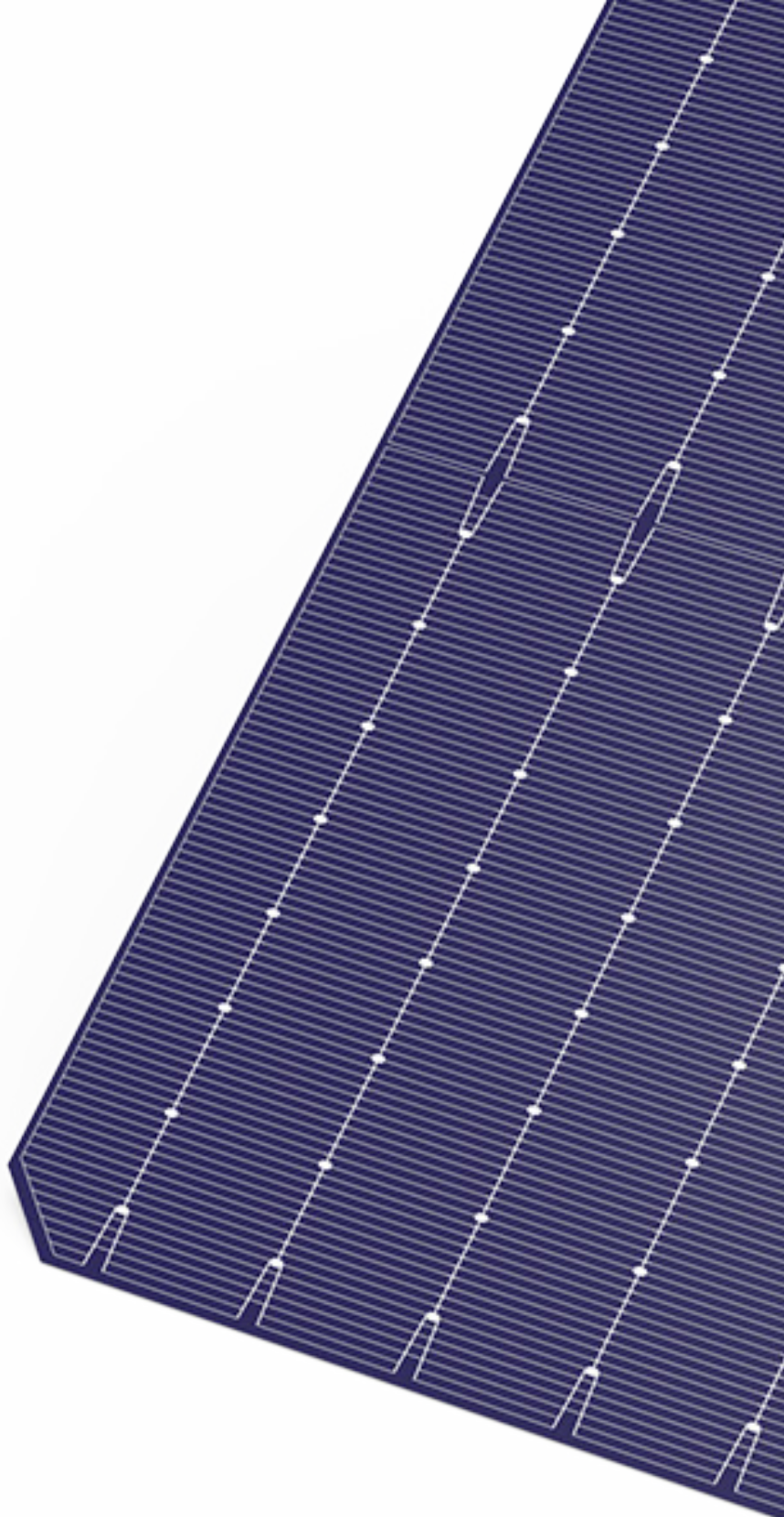
### Reduce The Power Loss

Multiple bus bars effectively reduce the power loss



### High Conversion Efficiency

Front efficiency  $\geq 23.6\%$ , Bifaciality rate  $\geq 70\%$



## Mechanical Characteristics

Model	182 mono-crystalline Bifacial solar cell (JT-182M-10D40)
Dimension	182mmx182mm $\pm 0.5$ mm, $\Phi$ 247mm $\pm 0.5$ mm
Thickness	175 $\mu$ m $\pm 17.5$ $\mu$ m
Front	10 busbars, 14 pads, 170 fingers, busbar width 1.2 $\pm 0.3$ mm
Back	10 busbars, 8 pads, 180 fingers, busbar width 1.2 $\pm 0.3$ mm

## Electrical Characteristics

Efficiency (%)	Power Pmpp (W)	Max.Power Current Impp (A)	Short Circuit Current Isc (A)	Max.Power Voltage Vmpp (V)	Open Circuit Voltage Voc (V)
>23.5	7.76	13.086	13.776	0.593	0.692
23.4~23.5	7.73	13.057	13.762	0.592	0.691
23.3~23.4	7.69	13.012	13.730	0.591	0.690
23.2~23.3	7.66	12.983	13.713	0.590	0.689
23.1~23.2	7.63	12.954	13.686	0.589	0.688
23.0~23.1	7.59	12.908	13.639	0.588	0.687
22.9~23.0	7.56	12.879	13.601	0.587	0.686
22.8~22.9	7.53	12.850	13.635	0.586	0.685
22.7~22.8	7.49	12.803	13.575	0.585	0.684
22.6~22.7	7.46	12.774	13.564	0.584	0.683
22.5~22.6	7.43	12.744	13.554	0.583	0.682
22.4~22.5	7.40	12.715	13.541	0.582	0.681
22.1~22.3	7.30	12.608	13.527	0.579	0.678
22.0~22.1	7.26	12.561	13.495	0.578	0.677

\* Standard Test Condition (STC): 1000W / m<sup>2</sup>, AM 1.5G, 25°C / Solar Cell Efficiency Positive Tolerance / Specifications and data for reference only

## Temperature Coefficients

TkCurrent 0.07% / °C

TkPower - 0.36% / °C

TkVoltage - 0.36% / °C

## Quality Control ±0.1% Efficiency Tolerance

The accuracy of the efficiency test is controlled within ±0.1%

Electrical performance, appearance, EL 100% automatic inspection

Calibration cells are traceable to Fraunhofer ISE

## IV Curve

