

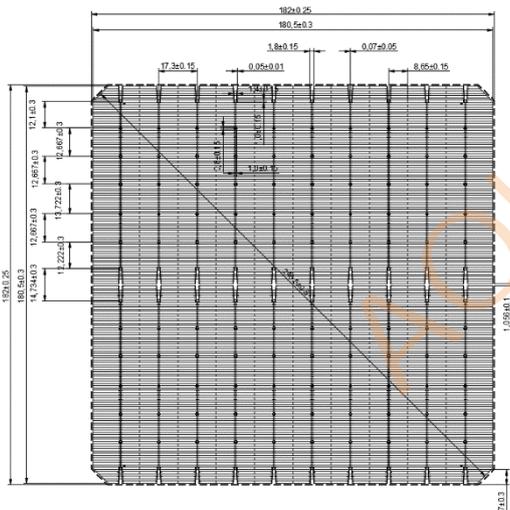
## 单晶 182-247-10BB-172F-BBD17.3 双面 PERC 电池 (A-V7.0) MONO 182-247-10BB-172F-BBD17.3 BIFACIAL PERC SOLAR CELLS

### 外观描述 Appearance Description

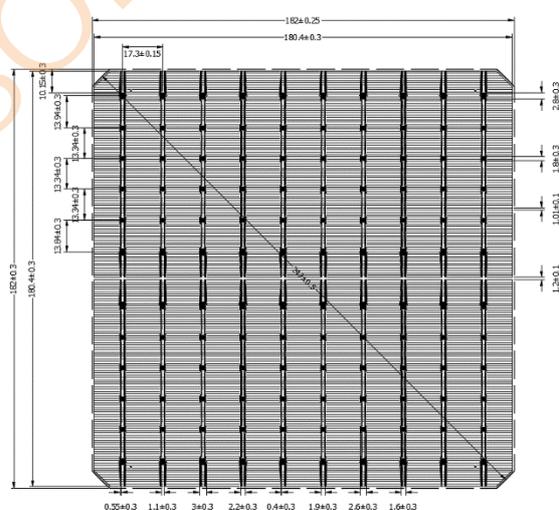
<b>产品型号</b>	<b>Product type</b>	AL7M9E1018A-L1
<b>尺寸</b>	<b>Dimension</b>	182mm×182mm±0.25mm (φ247mm±0.5mm)
<b>成品物料号</b>	<b>Cell product number</b>	60002702/60002703
<b>厚度(电池片)</b>	<b>Thickness (Cell)</b>	165μm±17.5μm
<b>正面 (-)</b>	<b>Front Side (-)</b>	二氧化硅+蓝色氮化硅复合减反膜 (PID Free) ; 半片设计; Silicon oxide + blue silicon nitride compound anti-reflection coating (PID Free) ; Half-cut design;
<b>背面 (+)</b>	<b>Back Side (+)</b>	钝化复合层 (氧化铝及氮化硅); Passivated layer (AlO <sub>x</sub> and SiN <sub>x</sub> ) and Rear Contact (Al).

### 电池片外观 Cell Appearance

正面外观 Front Side Appearance



背面外观 Rear Side Appearance



### 图形描述 Graphical Description

参数项目 Item		规格 Spec
<b>正面</b> Front Side	主栅数量 Number of busbars	10
	细栅线数量 Number of fingers	172
	主栅线间距 Distance between busbars	17.3±0.15 mm
<b>背面</b> Back Side	主栅数量 Number of busbars	10
	背面主栅线宽度 width of rear busbar	2.7/2.0±0.3 mm
	背铝栅线数量 Number of rear Al fingers	180
	电极分段数量 Number of Ag electrode sections	12

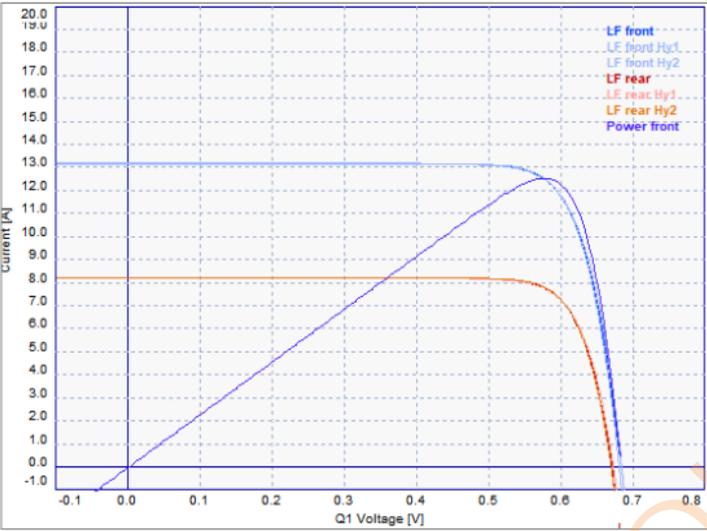
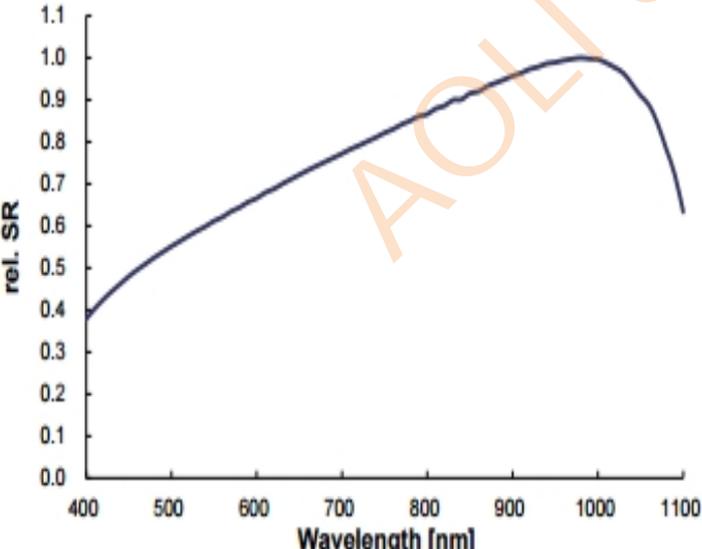
**单晶 182-247-10BB-172F-BBD17.3 双面 PERC 电池 (A-V7.0)**  
**MONO 182-247-10BB-172F-BBD17.3 BIFACIAL PERC SOLAR CELLS**

**电性能参数 Electrical Characteristics**

<b>Eff (%)</b>	<b>Pmpp (W)</b>	<b>Umpp(V)</b>	<b>Impp(A)</b>	<b>Voc(V)</b>	<b>Isc(A)</b>	<b>FF(%)</b>
<b>23.70-23.80</b>	7.82	0.616	12.695	0.6972	13.471	83.26
<b>23.60-23.70</b>	7.79	0.614	12.687	0.6957	13.458	83.20
<b>23.50-23.60</b>	7.76	0.612	12.680	0.6943	13.445	83.13
<b>23.40-23.50</b>	7.73	0.610	12.672	0.6930	13.429	83.06
<b>23.30-23.40</b>	7.69	0.607	12.669	0.6908	13.412	83.00
<b>23.20-23.30</b>	7.66	0.605	12.661	0.6893	13.400	82.93
<b>23.10-23.20</b>	7.63	0.603	12.648	0.6875	13.394	82.86
<b>23.00-23.10</b>	7.59	0.601	12.629	0.6862	13.358	82.80
<b>22.90-23.00</b>	7.56	0.599	12.621	0.6850	13.341	82.73
<b>22.80-22.90</b>	7.53	0.597	12.613	0.6837	13.324	82.66
<b>22.70-22.80</b>	7.49	0.595	12.584	0.6830	13.300	82.48
<b>22.60-22.70</b>	7.46	0.593	12.581	0.6822	13.285	82.32
<b>22.50-22.60</b>	7.43	0.591	12.578	0.6812	13.278	82.11
<b>22.40-22.50</b>	7.40	0.589	12.564	0.6795	13.278	81.97
<b>22.30-22.40</b>	7.36	0.587	12.538	0.6781	13.269	81.81
<b>22.20-22.30</b>	7.33	0.585	12.537	0.6765	13.257	81.71
<b>22.10-22.20</b>	7.30	0.583	12.524	0.675	13.249	81.59
<b>22.00-22.10</b>	7.26	0.580	12.51	0.6738	13.240	81.40
<b>21.90-22.00</b>	7.23	0.579	12.495	0.6728	13.227	81.23
<b>21.80-21.90</b>	7.20	0.577	12.482	0.6715	13.214	81.09
<b>21.70-21.80</b>	7.16	0.575	12.459	0.6708	13.202	80.88
<b>21.60-21.70</b>	7.13	0.573	12.443	0.6691	13.199	80.73
<b>21.50-21.60</b>	7.10	0.571	12.439	0.6678	13.186	80.59
<b>21.40-21.50</b>	7.07	0.569	12.424	0.6668	13.177	80.46
<b>21.30-21.40</b>	7.03	0.567	12.403	0.6652	13.154	80.35
<b>21.20-21.30</b>	7.00	0.566	12.375	0.6644	13.126	80.24
<b>21.10-21.20</b>	6.97	0.564	12.36	0.663	13.114	80.12
<b>21.00-21.10</b>	6.93	0.562	12.325	0.6622	13.08	80.03

标准测试条件Standard Test Condition: 1000W/m<sup>2</sup>, AM1.5, 25°C

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I-V 曲线 I-V Curve	温度系数 Temperature Coefficients																	
<p>[Q1] Forward voltage with light</p> 	<p>TkVoltage (%/K) : -0.36</p> <hr/> <p>TkCurrent (%/K) : +0.07</p> <hr/> <p>TkPower (%/K) : -0.38</p>																	
光谱曲线 Spectral Response	光强响应 Light intensity dependence																	
	<table border="1" data-bbox="916 1162 1468 1570"> <thead> <tr> <th>Intensity (W/m<sup>2</sup>)</th> <th>V<sub>mpp</sub></th> <th>I<sub>mpp</sub></th> </tr> </thead> <tbody> <tr> <td>1000</td> <td>1.000</td> <td>1.000</td> </tr> <tr> <td>800</td> <td>0.990</td> <td>0.801</td> </tr> <tr> <td>600</td> <td>0.977</td> <td>0.600</td> </tr> <tr> <td>200</td> <td>0.923</td> <td>0.195</td> </tr> </tbody> </table> <p>Ratio of V<sub>mpp</sub> ( I<sub>mpp</sub>) at reduced intensity to I<sub>mpp</sub> (V<sub>mpp</sub>) at 1000 (W/m<sup>2</sup>)</p>			Intensity (W/m <sup>2</sup> )	V <sub>mpp</sub>	I <sub>mpp</sub>	1000	1.000	1.000	800	0.990	0.801	600	0.977	0.600	200	0.923	0.195
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Note: The above technical parameters are subject to technical changes and tests, AOI Solar reserves the right to final interpretation.