

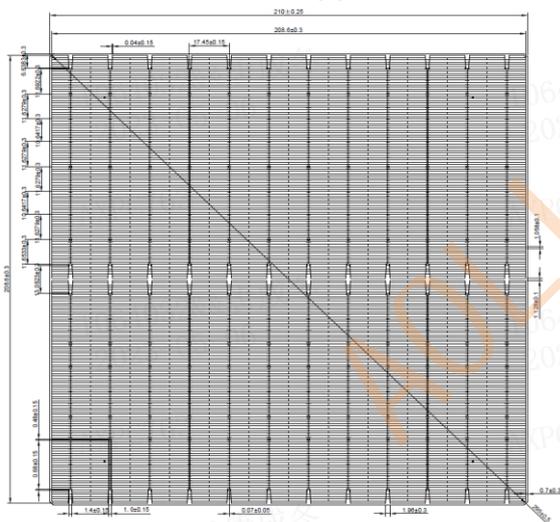
## 单晶 210-295-12BB-198F-BBD17.45 双面 PERC 电池 (A-V7.0) MONO 210-295-12BB-198F-BBD17.45 BIFACIAL SOLAR CELLS

### 外观描述 Appearance Description

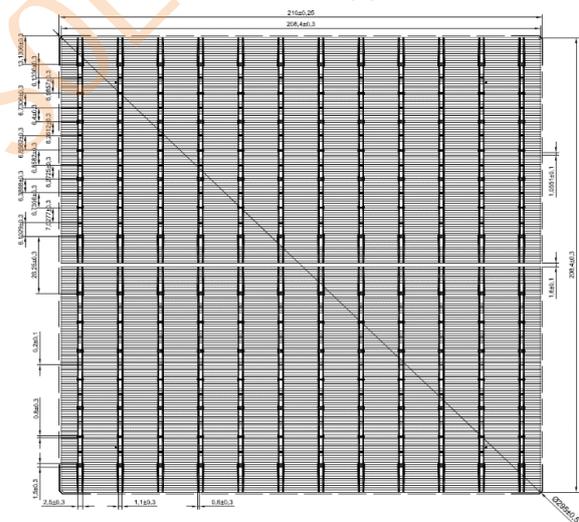
<b>产品型号</b>	<b>Product type</b>	AL8S7E1218A-R1
<b>尺寸</b>	<b>Dimension</b>	210mm×210mm±0.25mm (φ295mm±0.5mm)
<b>厚度(电池片)</b>	<b>Thickness (Cell)</b>	165μm±17.5μm (掺 NB)
<b>正面 (-)</b>	<b>Front Side (-)</b>	二氧化硅+蓝色氮化硅复合减反膜 (PID Free) ; 半片设计; Silicon oxide + blue silicon nitride compound anti-reflection coating (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



### 电性能参数 Electrical Characteristics

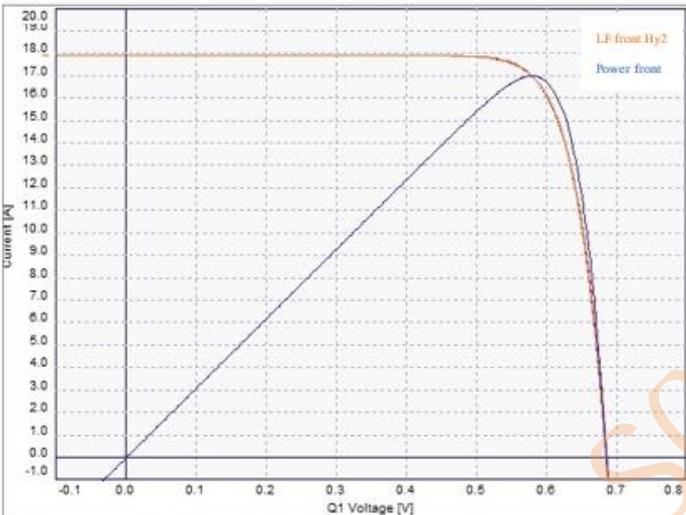
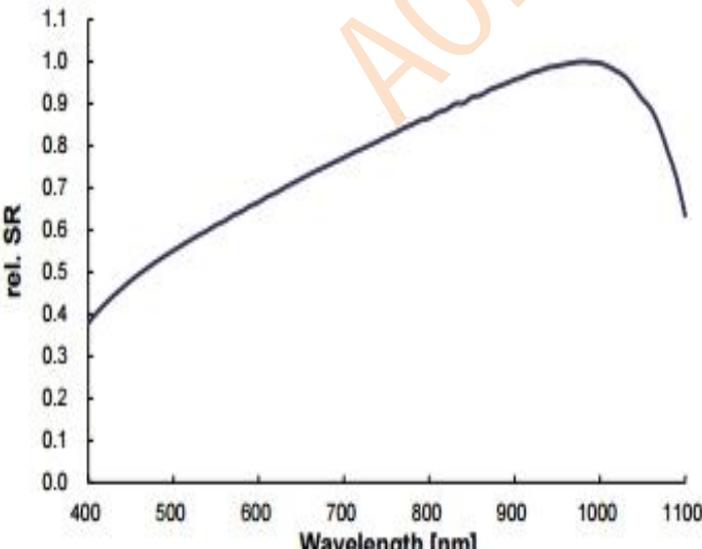
		参数项目 Item	规格 Spec
<b>正面</b> Front Side	主栅数量	Number of busbars	12
	细栅线数量	Number of fingers	198
	正面主栅线宽度	Width of front busbar	0.07±0.05 mm
	主栅线间距	Distance between busbars	17.45±0.15 mm
<b>背面</b> Back Side	主栅数量	Number of busbars	12
	背面主栅线宽度	Width of rear busbar	1.1/2.5±0.3 mm
	背铝栅线数量	Number of rear Al fingers	198
	电极分段数量	Number of Ag electrode sections	26

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<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>23.60-23.70</b>	10.41	0.595	17.490	0.6955	18.266	81.92
<b>23.50-23.60</b>	10.36	0.594	17.442	0.6950	18.238	81.77
<b>23.40-23.50</b>	10.32	0.593	17.404	0.6945	18.210	81.60
<b>23.30-23.40</b>	10.27	0.592	17.355	0.6940	18.176	81.47
<b>23.20-23.30</b>	10.23	0.591	17.311	0.6932	18.150	81.32
<b>23.10-23.20</b>	10.19	0.590	17.265	0.6925	18.125	81.16
<b>23.00-23.10</b>	10.14	0.588	17.245	0.6917	18.114	80.95
<b>22.90-23.00</b>	10.10	0.587	17.201	0.6912	18.092	80.74
<b>22.80-22.90</b>	10.05	0.586	17.158	0.6903	18.063	80.62
<b>22.70-22.80</b>	10.01	0.584	17.143	0.6895	18.048	80.45
<b>22.60-22.70</b>	9.97	0.583	17.095	0.6887	18.015	80.33
<b>22.50-22.60</b>	9.92	0.582	17.050	0.6878	17.982	80.22
<b>22.40-22.50</b>	9.88	0.580	17.029	0.6863	17.965	80.12
<b>22.30-22.40</b>	9.83	0.579	16.983	0.6842	17.951	80.05
<b>22.20-22.30</b>	9.79	0.577	16.964	0.6828	17.925	79.97
<b>22.10-22.20</b>	9.75	0.575	16.949	0.6812	17.908	79.89
<b>22.00-22.10</b>	9.70	0.574	16.902	0.6795	17.887	79.81
<b>21.90-22.00</b>	9.66	0.572	16.884	0.6781	17.866	79.71
<b>21.80-21.90</b>	9.61	0.570	16.864	0.6766	17.841	79.62
<b>21.70-21.80</b>	9.57	0.569	16.818	0.6745	17.828	79.58
<b>21.60-21.70</b>	9.52	0.567	16.797	0.6733	17.805	79.45
<b>21.50-21.60</b>	9.48	0.565	16.782	0.6721	17.792	79.29
<b>21.40-21.50</b>	9.44	0.564	16.732	0.671	17.775	79.12

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>		
	<p>TkCurrent (%/K) : +0.07</p>		
	<p>TkPower (%/K) : -0.38</p>		
光谱曲线 Spectral Response	光强响应 Light intensity dependence		
	<p>Intensity (W/m<sup>2</sup>)</p>	<p>V<sub>mpp</sub></p>	<p>I<sub>mpp</sub></p>
	<p>1000</p>	<p>1.000</p>	<p>1.000</p>
	<p>800</p>	<p>0.990</p>	<p>0.801</p>
	<p>600</p>	<p>0.977</p>	<p>0.600</p>
	<p>200</p>	<p>0.923</p>	<p>0.195</p>
	<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>		