

# 单晶 PERC 电池规格书

## 单晶 PERC 电池规格书 (166\*166-9BB)

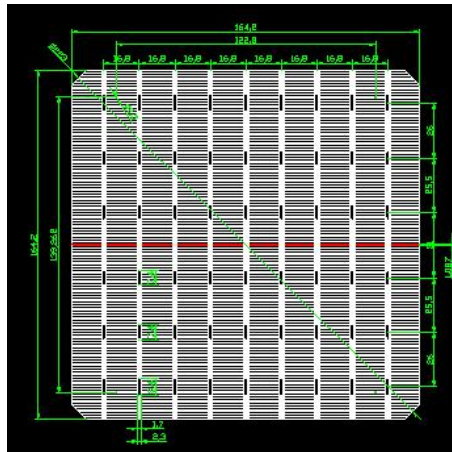
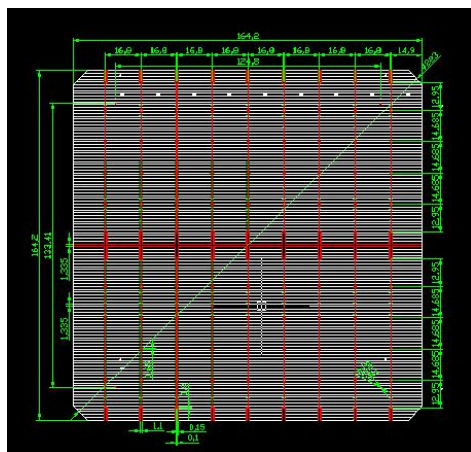
### 1、产品名称 Product Name

M166D 9BB

### 2、物理特性 Physical Characteristics

尺寸 Dimension	166mm*166mm±0.25mm
厚度 Thickness	190um±30um
正面 Front (-)	二氧化硅加上氮化硅蓝色复合减反膜 (PID Free) Silicon nitride anti-reflection coating (PID Free)
	9*0.1mm 主栅线(银), 124 根副栅线 9 Bus-bar with 0.1mm width 124 fingers
背面 Rear(+)	氧化铝加氮化硅复合层; 铝背场局域接触。 Aluminum oxide and silicon nitride composite layer Aluminum back field local contact
	六段式, 银背电极宽度 1.7mm, 152 根副栅线。 Grid Width 1.7mm 6 Sections 152 fingers

### 3、网版图纸 Cell Layout



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## 4、电性能特性 Electrical Characteristics

Eff(%)	Pm(Wp)	Vm(V)	Im(A)	Voc(V)	Isc(A)	FF (%)
22.9	6.28	0.5933	10.582	0.6874	11.113	82.18
22.8	6.25	0.5916	10.566	0.6859	11.100	82.10
22.7	6.22	0.5905	10.540	0.6837	11.105	81.97
22.6	6.20	0.5887	10.525	0.6822	11.090	81.89
22.5	6.17	0.5873	10.503	0.6811	11.082	81.73
22.4	6.14	0.5856	10.486	0.6807	11.075	81.46
22.3	6.11	0.5835	10.477	0.6790	11.060	81.41
22.2	6.09	0.5817	10.462	0.6780	11.046	81.26
22.1	6.06	0.5799	10.448	0.6777	11.039	80.98
22.0	6.03	0.5781	10.433	0.6774	11.021	80.81
21.9	6.00	0.5760	10.424	0.6748	11.014	80.79
21.8	5.98	0.5742	10.409	0.6743	10.996	80.60
21.7	5.95	0.5720	10.401	0.6729	10.990	80.45
21.6	5.92	0.5701	10.386	0.6719	10.974	80.30

标准测试条件：光强 1000W/m<sup>2</sup>，光谱 AM=1.5，温度 25°

Test condition : 1000 W/m<sup>2</sup> , AM 1.5, 25°C

逆电流：电池片在反向电压-12V 时，Irev2≤1.5A

Reverse characteristics: Current of cell sat reverse bias -12V, should be lower than 1.5A

## 5、温度系数 Temperature coefficients

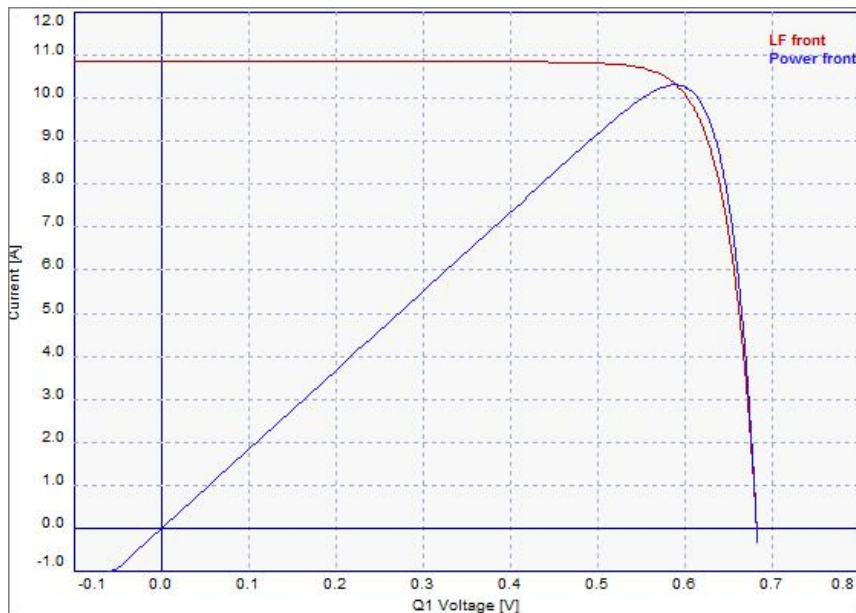
Current (%/K)	0.07
Voltage (%/K)	-0.36
Power (%/K)	-0.36

## 6、光衰减 LID

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检验项目 Item	检验标准 Inspection method
光衰减 LID	辐照量不低于 5KWh/m <sup>2</sup> ，功率衰减 ≤1.5% Light intensity: 1000W/m <sup>2</sup> Irradiation time: 5 hours power attenuation ≤1.5%

## 7、IV 曲线 IV Curve



## 8、优势 Product superiority

1、100%经过 EL 全检，确保出货电池片无隐裂和断栅；

Automatic EL inspection ensuring the shipment of cell without any cracks and disturbance

2、表面膜色均匀，无印刷瑕疵，外观美观；

Uniform and nice surface film without printing faults

3、低反向漏电流，PID 工艺，提高组件长期使用可靠性；

Low reverse leakage current and PID technique improving the service

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reliability of modules for long time

4、按照 0.1%效率一个档位分选，降低组件封装损耗。

Sorting by 0.1% efficiency etch time reducing the losses of module packaging