

5BB多晶常规太阳能电池片

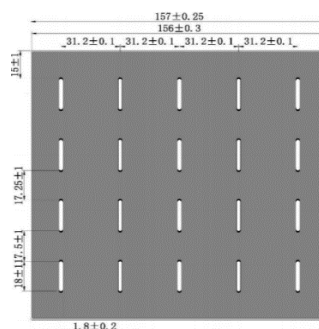
Cell appearance/电池外观



Appearance parameters/外观参数

项目/Items	规格/ Specification
Dimension/尺寸	157*157±0.25mm
Thickness/厚度:	190±30um
Front surface/正面:	5*0.7mm主栅线, 106根细栅线, 二氧化硅+蓝色氮化硅复合减反膜 (PID Free)
Rear surface/背面:	背电极宽度1.8mm, 背面覆盖铝背场

Cell layout/网版图纸



Adhesion and solderability/附着力及可焊性

Test items/检测项目

Adhesion of front/rear busbar/电极焊接拉力强
Boiled Testing/背场可靠性:

Test requirement / 检测标准

180度角拉焊带 (无虚焊, 过焊等不良), 焊接拉力值 $\geq 1.5N$
电池置于 $75\pm 2^{\circ}C$ 水中煮10分钟, 试验中水不浑浊, 无铝层脱落

Light-induced degradation/光衰

Test items/检测项目

LID/光衰减:

Test requirement /检测标准

辐照度不低于 $5kWh/m^2$, 功率衰减 $\leq 1.5\%$

Product advantages/产品优势

- 100%经过EL全检, 确保出货电池片无隐裂和断栅;
- 表面颜色均匀, 无印刷瑕疵, 外观美观;
- 低反向漏电流, PID工艺, 提高组件长期使用可靠性;
- 每档按照0.1%效率分选, 降低组件封装损耗。

Electrical properties/电特性

Temperature coefficient/温度系数

Voc: $-0.36\%/^{\circ}C$
Isc: $0.06\%/^{\circ}C$
Pm: $-0.36\%/^{\circ}C$

Electrical performance/电性能

档位/Eff (%)	效率区间/Efficiency	功率/Pmpp (W)
19.0%	> 19.0%	4.67
18.9%	18.9~19.0%	4.64
18.8%	18.8~18.9%	4.62
18.7%	18.7~18.8%	4.59
18.6%	18.6~18.7%	4.57
18.5%	18.5~18.6%	4.55
18.4%	18.4~18.5%	4.52
18.3%	18.3~18.4%	4.50
18.2%	18.2~18.3%	4.47
18.1%	18.1~18.2%	4.45
18.0%	18.0~18.1%	4.42
17.9%	17.9~18.0%	4.40

STC/标准测试条件

Intensity/光强: $1000W/m^2$
Spectrum/光谱: AM1.5
Temperature /温度: $25^{\circ}C$