

5BB单晶PERC双面太阳能电池片

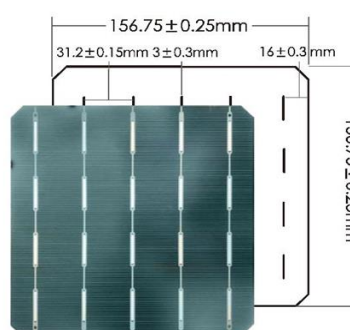
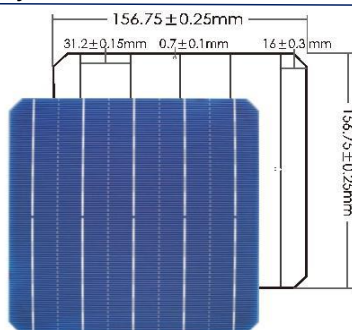
Cell appearance/电池外观



Appearance parameters/外观参数

项目/Items	规格/ Specification
Dimension/尺寸	156.75*156.75±0.25mm
Thickness/厚度:	190±30um
Front surface/正面:	5*0.7mm主栅线, 108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, 背面主栅宽度 (铝) 3.0mm, 160根背面细栅线 (铝), 蓝色氮化硅抗反射膜

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≥1.5N
电池置于75±2°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/m², 功率衰减≤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%/°C
Isc: 0.07%/°C
Pm: -0.38%/°C

Electrical performance/电性能

档位/Eff (%)	效率区间/Efficiency	功率/Pmpp (W)
22.5%	>22.5%	5.50
22.4%	22.4~22.5%	5.47
22.3%	22.3~22.4%	5.45
22.2%	22.2~22.3%	5.42
22.1%	22.1~22.2%	5.40
22.0%	22.0~22.1%	5.38
21.9%	21.9~22.0%	5.35
21.8%	21.8~21.9%	5.33
21.7%	21.7~21.8%	5.30
21.6%	21.6~21.7%	5.28
21.5%	21.5~21.6%	5.25
21.4%	21.4~21.5%	5.23
背面效率		
16.5%	>16.5%	4.03
16.0%	16.0~16.5%	3.91
15.5%	15.5~16.0%	3.79
15.0%	<15%	3.66

STC/标准测试条件

Intensity/光强: 1000W/m²
Spectrum/光谱: AM1.5
Temperature /温度: 25°C