



潞安多晶硅太阳能电池 Lu'An multicrystalline silicon solar cell

• 电气特性 Electrical Characteristics

| Grade | Eff(%) | Pmpp(W) | Vmpp(mV) | Impp(A) | Voc(mV) | Isc(A) |
|-------|--------|---------|----------|---------|---------|--------|
| 1 | 19.4 | 4.77 | 533 | 8.94 | 635 | 9.48 |
| 2 | 19.3 | 4.74 | 531 | 8.93 | 634 | 9.46 |
| 3 | 19.2 | 4.72 | 529 | 8.92 | 633 | 9.44 |
| 4 | 19.1 | 4.69 | 528 | 8.89 | 632 | 9.43 |
| 5 | 19.0 | 4.67 | 527 | 8.86 | 630 | 9.41 |
| 6 | 18.9 | 4.64 | 526 | 8.83 | 629 | 9.39 |

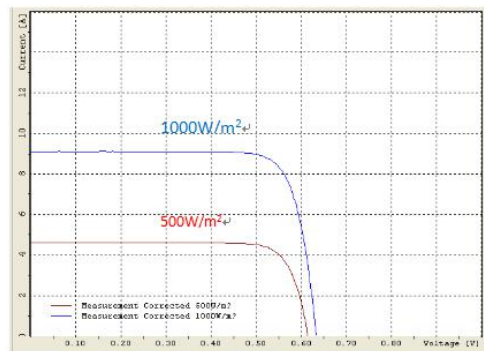
The Efficiency absolute tolerance is $\pm 0.1\%$ referred to the measured performance.

All technical data at Standard Test Conditions(STC): Irradiance level 1000W/m^2 spectrum AM1.5 and cell temperature 25°C

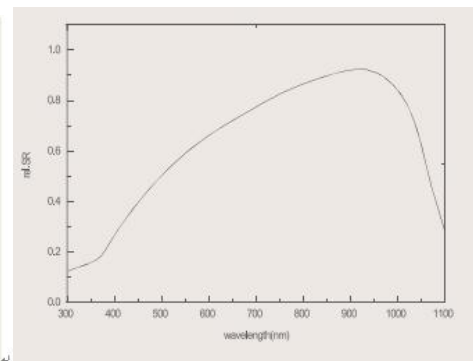
• 温度系数 Temperature coefficients

开路电压温度系数 Temperature coefficients of open circuit voltage: $-0.32\%/K$
 短路电流温度系数 Temperature coefficients of short circuit current: $+0.02\%/K$
 最大功率温度系数 Temperature coefficients of maximum power: $-0.50\%/K$

• I-V 曲线与光谱响应 I-V Curve and Special Response



I-V 曲线

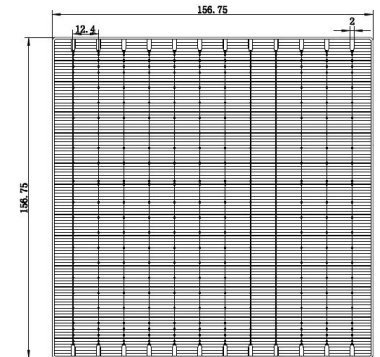


光谱响应

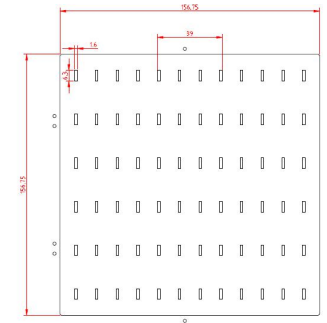
• 机械特征 Mechanical characteristics

尺寸 size: $156.75 \times 156.75 \pm 0.25\text{mm}$
 厚度 thickness: $195 \pm 15 \mu\text{m}$

电池正面
 Front(-): 覆盖有深蓝色氮化硅减反射膜; 12 根镂空主栅线
 Covered with dark blue silicon nitride anti-reflection coating; 12 hollowed-out busbars



电池背面
 Back(+): 覆盖有铝背场; 背银焊接衬 72 个。
 Covered with Aluminun BSF; 72 welded substrate(silver)



图片仅供参考 For referece only

• 光强关系 Light Indensity Depedence

| Indensity(W/m^2) | Voc | Isc |
|-----------------------------|-------|-----|
| 1000 | 1.000 | 1.0 |
| 800 | 0.992 | 0.8 |
| 600 | 0.990 | 0.6 |
| 200 | 0.939 | 0.2 |
| 100 | 0.909 | 0.1 |