

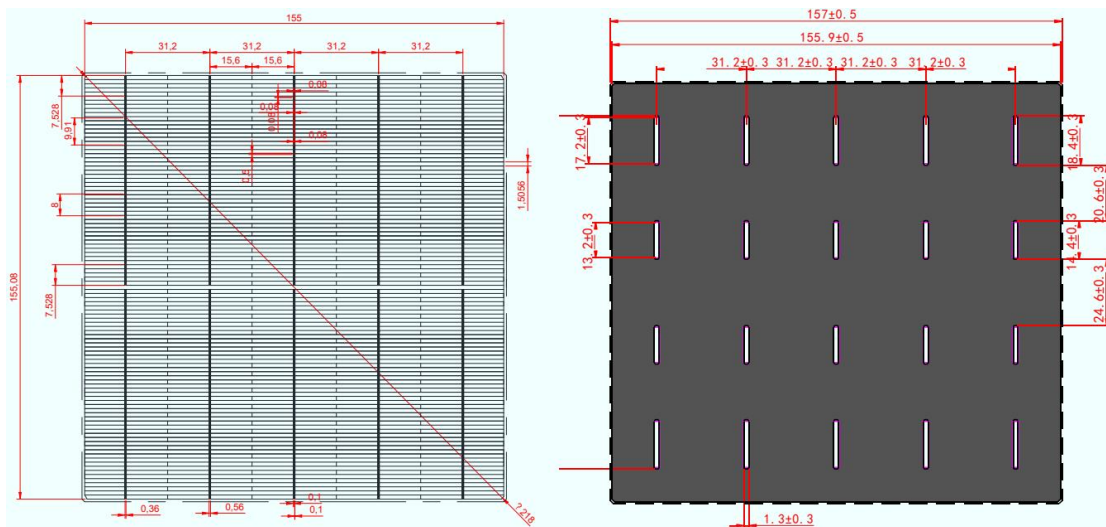
苏州斐尔西科技有限公司

Suzhou Fly Solar Technology Co., Ltd

Data sheet for 157mm poly cells

P1575BB104M8

产品外观 Product appearance design



技术数据与设计 Technical data and design

基材材料 Substrate material	P-型多晶硅片 P-type polycrystalline silicon wafer
电池厚度 Cell thickness	180 μ m \pm 20 μ m
边长 Dimension	157mm*157mm \pm 0.5mm
对角线长度 Diagonal	220.7mm \pm 0.5mm
正面 Front	5*0.56mm \pm 0.1mm主栅线(银) 104根副栅线, 蓝色减反射膜(氮化硅) 5*0.56mm \pm 0.1mm busbars(silver) 104 fingers, Silicon oxide + blue silicon nitride compound anti-reflection coating(PID Free)
背面 Back	背电极 (银) 露白宽度 1.3 \pm 0.3mm, 背面覆盖铝背场 1.3 \pm 0.3mm wide soldering pads (silver), Aluminum back-surface field

温度系数 Temperature coefficient

TkPower	-(0.4035±0.02) %/°C
TkVoltage	-(0.3283±0.03) %/°C
TkCurrent	+(0.0725±0.015) %/°C

光衰测试 Optical decay test

辐照度： 1000W/m²，标准太阳光谱 (AM 1.5) ， 总辐照量： 5 kwh/m²，电池片效率衰减 ≤ 1.5%。

Irradiance: 1000W/m²，standard solar spectrum (AM 1.5), total irradiation: 5 kwh/m², battery efficiency attenuation ≤ 1.5%.

电性能 Electrical property

效率 Efficiency (%)	最大输出功率 Maximum output power P _{mpp} (W)	最大输出电压 Maximum output voltage U _{mpp} (V)	最大输出电流 Maximum output current I _{mpp} (A)	开路电压 open-circuit voltage Voc(V)	短路电流 Short circuit current Isc(A)	填充因子 Filling factor FF(%)
19.70	4.84	0.551	8.784	0.653	9.321	79.52
19.60	4.82	0.550	8.757	0.652	9.294	79.48
19.50	4.79	0.549	8.727	0.651	9.263	79.45
19.40	4.77	0.548	8.701	0.650	9.239	79.38
19.30	4.74	0.547	8.669	0.649	9.209	79.34
19.20	4.72	0.546	8.639	0.648	9.180	79.30
19.10	4.69	0.545	8.611	0.647	9.156	79.22
19.00	4.67	0.544	8.581	0.646	9.130	79.15
18.90	4.64	0.543	8.553	0.645	9.102	79.11
18.80	4.62	0.542	8.522	0.644	9.074	79.05
18.70	4.59	0.541	8.494	0.643	9.047	78.99
19.30	4.74	0.545	8.72	0.640	9.22	80.55
19.20	4.72	0.544	8.70	0.639	9.20	80.46
19.10	4.70	0.542	8.68	0.637	9.18	80.44
19.00	4.68	0.541	8.64	0.636	9.16	80.43
18.90	4.64	0.547	8.50	0.641	9.00	80.62
18.80	4.62	0.545	8.48	0.640	8.98	80.52
18.70	4.60	0.544	8.48	0.639	8.96	80.43
18.60	4.58	0.542	8.46	0.637	8.96	80.35
18.50	4.56	0.541	8.44	0.636	8.94	80.25
18.40	4.52	0.539	8.42	0.634	8.92	80.23
18.30	4.50	0.538	8.40	0.633	8.90	80.16
18.20	4.48	0.536	8.38	0.631	8.88	80.08
18.10	4.46	0.535	8.34	0.630	8.86	79.82