

Solar poly-crystalline silicon cell

Mechanical data and design

Format	157mm×157mm±0.25mm
Thickness (Si)	190μm±20μm/180μm±20μm
Front (-)	0.08mm bus bars(silver)
Back (+)	1.6mm soldering pads(silver)

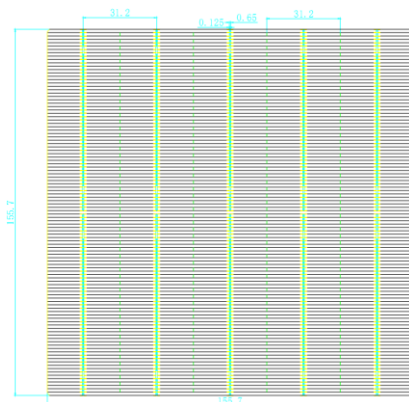
Temperature coefficients

TkVoltage	-0.348%/k
TkCurrent	+0.059%/k
TkPower	-0.401%/k

Efficiency	Isc(A)	Uoc(V)	Imp(A)	Umpp(V)	Pmpp(W)	FF(%)
19.50%	9.94	0.644	8.698	0.5525	4.85	81.11
19.40%	9.267	0.643	8.646	0.5512	4.82	81.05
19.30%	9.220	0.643	8.598	0.5515	4.80	81.02
19.20%	9.201	0.642	8.619	0.5501	4.77	80.89
19.10%	9.182	0.641	8.554	0.5486	4.75	80.76
19.00%	9.159	0.639	8.527	0.5474	4.72	80.77
18.90%	9.135	0.638	8.498	0.5464	4.70	80.72
18.80%	9.117	0.636	8.494	0.5438	4.67	80.70
18.70%	9.089	0.635	8.422	0.5457	4.65	80.64
18.60%	9.038	0.636	8.406	0.5438	4.63	80.55
18.50%	9.033	0.634	8.385	0.5426	4.60	80.53
18.40%	8.991	0.633	8.351	0.5451	4.58	80.48

Date under standard testing conditions(STC):1000W/m²,AM1.5,25°C

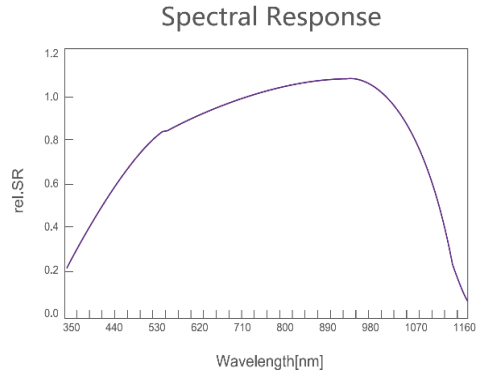
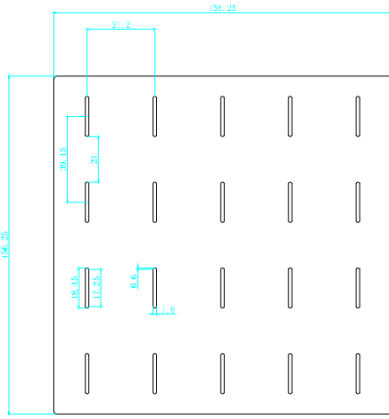
TZ Solar poly-crystalline silicon cell



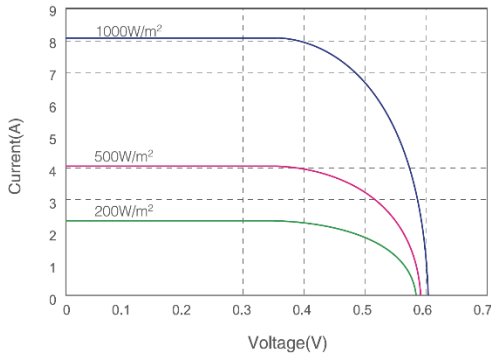
Solder Ability

Side	Peel strength
Front side average	>2.0N/mm
Back side average	>3.5N/mm
Minimum	>1.5N/mm

Ribbon width 1.2mm,solder at 300-400°C with no clean flux.



IV-Curve



Light intensity dependance

Intensity W/m^2	V _{pm}	I _{pm}
1000	1	1
800	0.986	0.80
600	0.974	0.60
500	0.967	0.50
400	0.959	0.40
200	0.932	0.20
100	0.905	0.10

V_{pm}=maximum power voltage

I_{pm}= maximum power current