

157mm×157mm

ZG-157P

ZG Solar poly-crystalline silicon cell



Model : ZG-157P

5BUS BAR
Poly-crystalline Silicon Cell

Mechanical data and design

Format	157mm×157mm±0.25mm
Thickness (Si)	200μm±20μm/180μm±20μm
Front (-)	0.7mm bus bars(silver),SiNx blue coating
Back (+)	2.2mm 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(%)
19.10%	9.146	0.638	8.650	0.5425	4.69	80.40
19.00%	9.112	0.638	8.615	0.5419	4.67	80.36
18.90%	9.077	0.636	8.591	0.5405	4.64	80.40
18.80%	9.056	0.635	8.566	0.5393	4.62	80.38
18.70%	9.03	0.633	8.542	0.5379	4.59	80.43
18.60%	9.002	0.632	8.513	0.5369	4.57	80.32
18.50%	8.989	0.632	8.495	0.5351	4.55	80.08
18.40%	8.987	0.631	8.487	0.5327	4.52	79.67
18.30%	8.965	0.632	8.441	0.5329	4.50	79.42
18.20%	8.907	0.630	8.405	0.5322	4.47	79.69
18.10%	8.906	0.628	8.402	0.5294	4.45	79.60
18.00%	8.873	0.633	8.257	0.5360	4.43	78.77

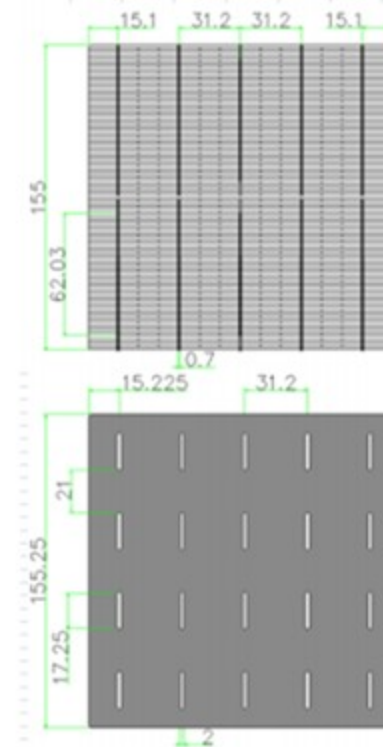
Date under standard testing conditions(STC):1000W/m²,AM1.5,25°C

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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 dean flux.

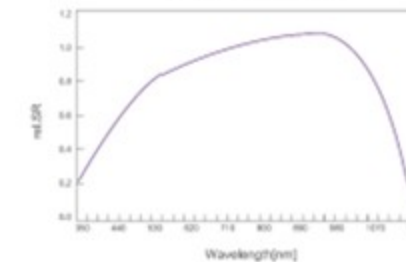
Light intensity dependance

Intensity W/m ²	Vpm	lpm
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

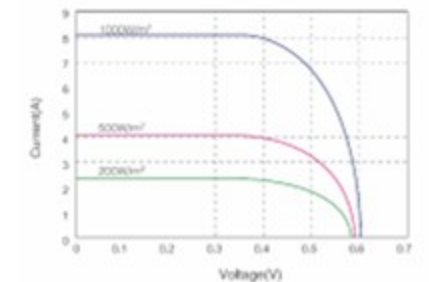
Vpm=maximum power voltage

lpm= maximum power current

Spectral Response



IV-Curve



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