

MONO PERC CELL (158.75)

The module adopts the non-anti-PID EVA, 85%℃ , 192H,-1500V, and leads theAttenuation≤3%

IMPERIAL STAR SOLAR uses high-eff ciency mono crystalline cells,the anti-PID celltechnology reduces the module attenuation causedby induced electric potential, as well as system power attenuation caused by the high temperature, humidity and salty atmosphere.

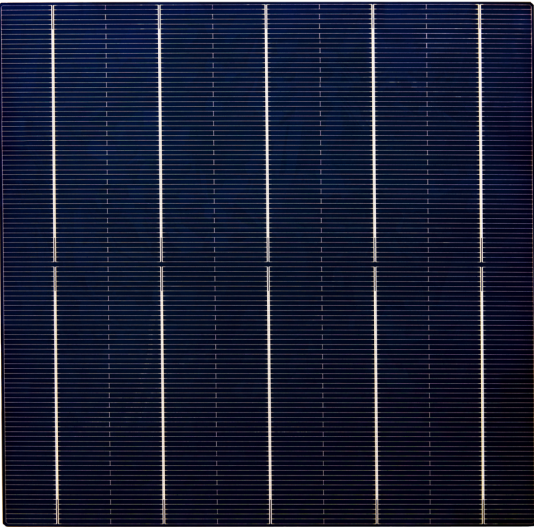


Figure 15-1: Mono PERC Cell

Appearance

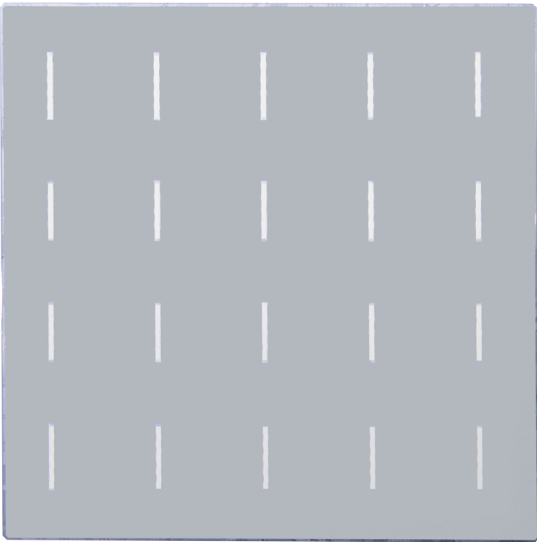
Dimension	158.75mm*158.75mm±0.25mm
Thickness	190±30 μm
Front(-)	Bus-bar with 0.7mm width,116 fingers Blue silicon nitrideantireflection coating
Rear(+)	Bus-bar with1.8mm width,Aluminum oxide, silicon nitrideantireflection coating, aluminum local back surface field

Temperature Coefficient

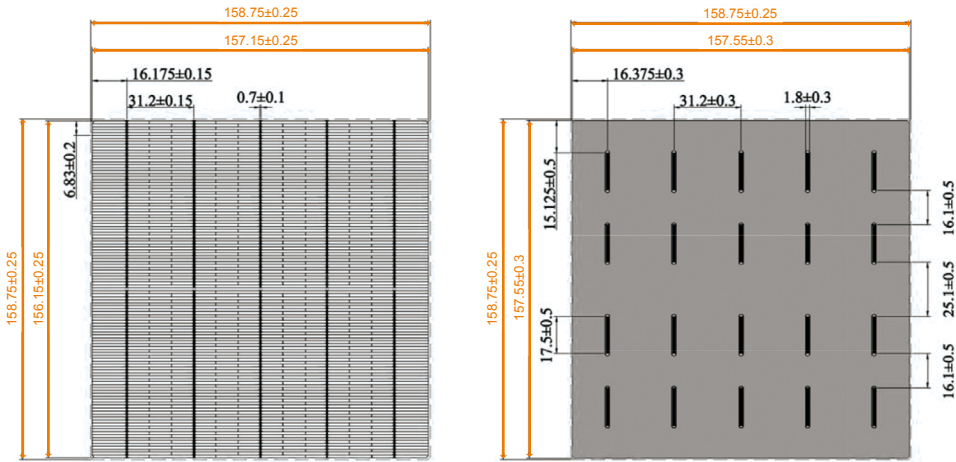
TkVoltage	-0.36%/k
TkCurrent	+0.07%/k
TkPower	-0.38%/k

Advantage

- ◆ Ultra-fast Mono texturing technology, uniform texturing wafer surface,Reduce the reflection of sunlight.
- ◆ Unique low-pressure diffusion technology to ensure uniformity of diffusion high square resistance.
- ◆ Advanced alumina passivation and PECVD film forming technology,Which can ensure a good passivation and coating uniform blue Silicon nitride film on surface.
- ◆ High precision laser grooving technology, use high quality metal Slurry made back field and electrodes to ensure good electrical conductivity、 reliable adhesion and good electrode solderability.
- ◆ Low breakage ratio, high excellent quality ratio.
- ◆ Rigorous standards for classification and bus bar design, decreasing the possibility of power dissipation during assembling process.



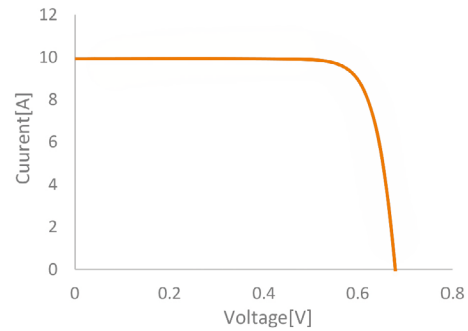
Design



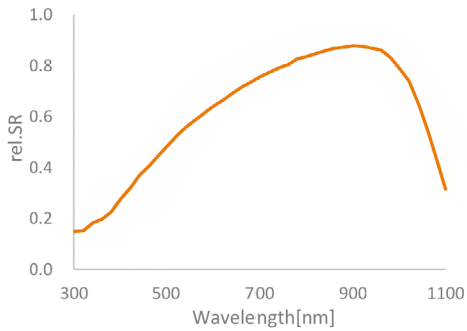
Electrical Performance

No.	Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(v)	Isc(A)
01	22.400	5.640	0.591	9.550	0.689	9.970
02	22.300	5.620	0.590	9.520	0.688	9.960
03	22.200	5.590	0.589	9.500	0.687	9.950
04	22.100	5.570	0.588	9.470	0.686	9.940
05	22.000	5.540	0.587	9.440	0.685	9.930
06	21.900	5.520	0.586	9.420	0.684	9.920
07	21.800	5.490	0.585	9.390	0.683	9.910
08	21.700	5.470	0.584	9.360	0.682	9.900
09	21.600	5.440	0.583	9.340	0.681	9.890
10	21.500	5.420	0.582	9.310	0.680	9.880
11	21.400	5.390	0.581	9.280	0.679	9.870

IV Curve



Spectral Response



Light Intensity Dependence

Intensity [w/m ²]	Isc	Voc
1000	1.00	1.00
900	0.90	0.99
800	0.80	0.99
600	0.60	0.98
400	0.40	0.96

* The short circuit current, open circuit voltage and power at different irradiance intensity.