

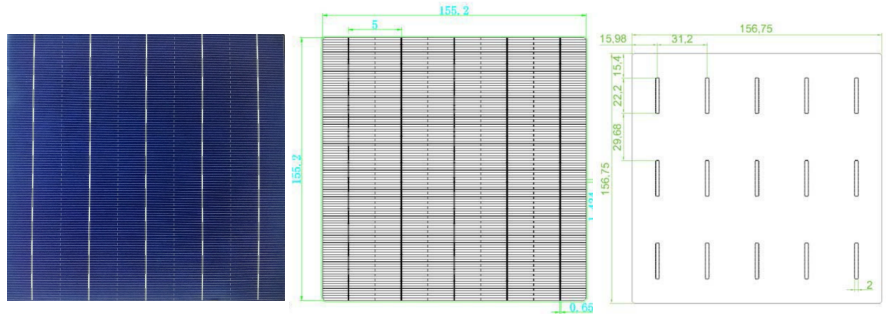
## High Performance-Stable Yields. -PD156B5

PD156B5 is the consequent advancement of our polycrystalline solar cell generation and achieves efficiencies up to 19%. Apart from being the most powerful polycrystalline solar cell on the market, PD156B5 is also the safest and is PID-resistant and Hot-Spot free. The new cell design allows for highest module output making PD156B5 the most reliable choice for your modules.

### 5 Busbar MultiCrystalline Solar Cell

#### Mechanical Parameters

Type: PD156B5  
 Product: 5BB Multicrystalline Silicon Solar Cell  
 Dimension: 156.75mm×156.75mm±0.5mm  
 Diameter: 220.2mm ± 0.25mm  
 Thickness: 200μm±0.5μm  
 Front(-): Blue anti-reflecting(silicon nitride);  
 0.65 ± 0.05mm busbar(silver)  
 Back(+): Surface field(Aluminum)  
 1.8 ± 0.1mm wide soldering pads;



#### Intensity Dependence

Intensity [W/m <sup>2</sup> ]	Rel.Isc	Rel.Voc
1000	1.0	1.000
800	0.8	0.991
600	0.6	0.980
500	0.5	0.970
400	0.4	0.960
200	0.2	0.931

※ratio of Voc reduced intensity to Voc(Isc) at1000/m<sup>2</sup>

#### Temperature coefficients :

TkVotlage β Voc -0.307%/K  
 TkCurrent α Isc +0.065%/K  
 TkPower δ Pmax -0.429%/K

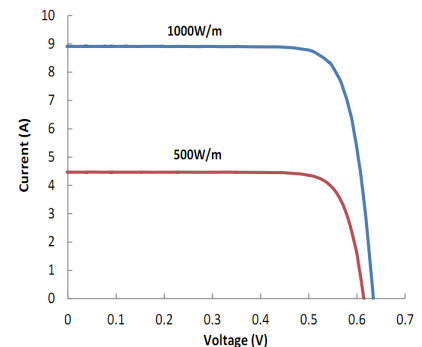
#### Electrical Performance

Efficiency	Pmpp(W)	Isc(A)	Voc(V)	Impp(A)	Vmpp(V)	FF
>19.1%	4.692	9.051	0.641	8.616	0.545	80.96
19.00%	4.668	9.033	0.64	8.586	0.545	80.85
18.90%	4.643	9.009	0.639	8.575	0.543	80.78
18.80%	4.619	8.988	0.638	8.563	0.541	80.68
18.70%	4.594	8.970	0.637	8.557	0.538	80.57
18.60%	4.569	8.951	0.636	8.552	0.536	80.45
18.50%	4.545	8.930	0.635	8.532	0.534	80.34
18.40%	4.52	8.909	0.634	8.498	0.534	80.24
18.30%	4.496	8.888	0.633	8.457	0.533	80.12
18.20%	4.471	8.861	0.632	8.416	0.533	80.10
18.00%	4.422	8.839	0.629	8.383	0.531	80.00
17.80%	4.373	8.778	0.626	8.312	0.530	79.79

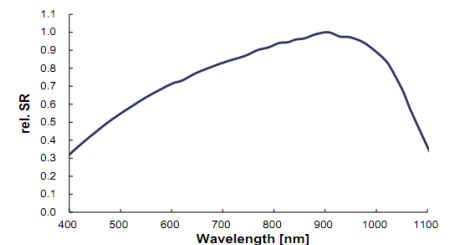
#### Quality Control

Front electrode designed with 110 fine finger  
 Cutting –edge MES system ensures product traceability  
 Use SPC system to control the parameters in the production process a fully automated production line guarantees stability and uniformity product quality.  
 Complete external appearance inspection on 100% of cells(Testing carried out using and appearance inspection module followed by secondary human eye confirmation.)  
 Fully anti-PID(standard EVAs can pass a 96-hours PID Test)  
 Strict slurry evaluation procedures guarantee that products meets EU RoHs&Reach Standards  
 Optimized packing design minimizes risk of damage during shipping.

#### IV Curve:



#### Spectral Response:



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