

**Good anti-PID ability**

Selection of packaging materials and strict process control ensure anti-PID and snail pattern components.

**High efficiency, low attenuation**

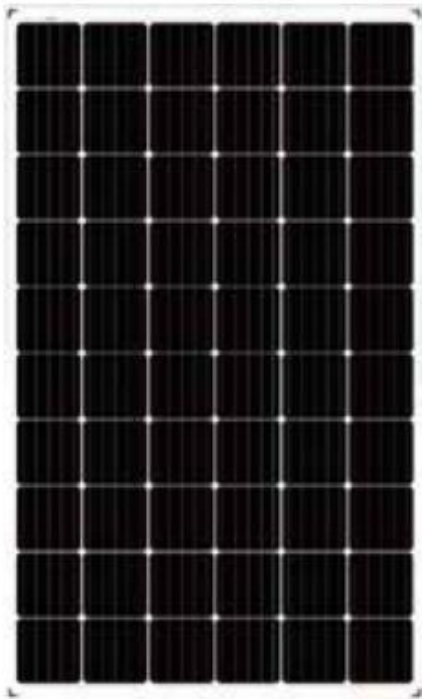
To ensure a higher power station, high-efficiency components, inverters with high conversion rates, and compatible components are necessary.

**Easy maintenance**

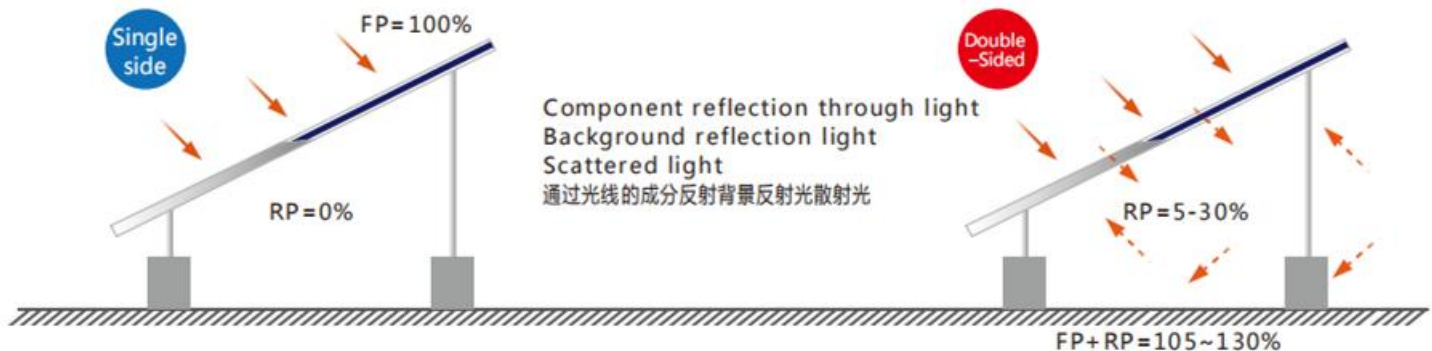
With its high transparency and ease of cleaning, tempered glass contributes to more power output and convenient maintenance.

**Can withstand harsh environments**

Can effectively resist harsh environments, compared to other industries manufacturers' lower annual attenuation rates. The product can pass sand dust, salt spray, and ammonia corrosion tests.



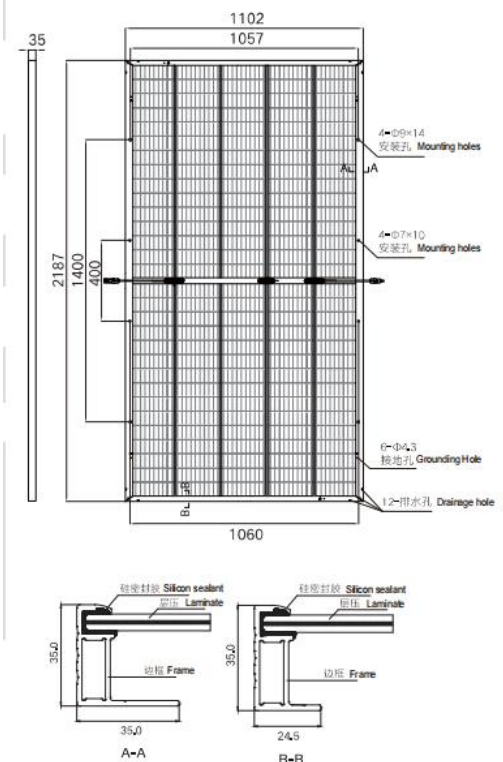
Double-sided solar panel generation increases back-side efficiency gain by 15%-30%  
 双面太阳能电池组件产生的背面效率提升15%-30%



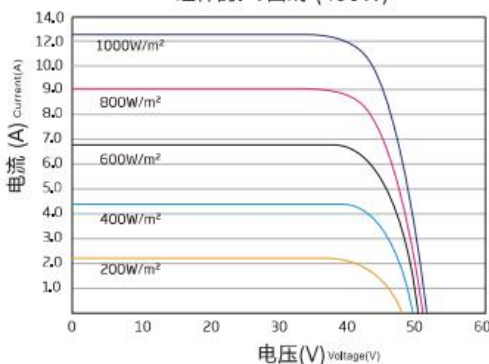
FP: Positive Output power of module 组件的正面输出功率  
 RP: Output power on the back of the module 组件背面的输出功率

Specifications (M: monocrystal, P: polycrystal)

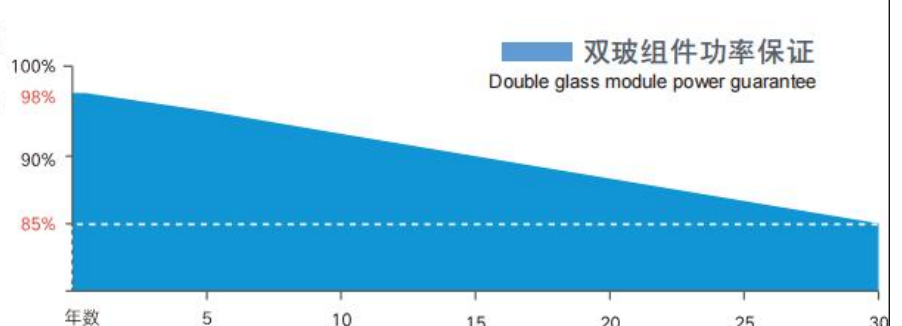
<b>Module</b>	FS-M-DEG18MC.20				
<b>Pmax</b>	480W	485W	490W	495W	500W
<b>Size and number of cells</b>	210*70mm, 150pcs/5*30				
<b>Tolerance</b>	0~+5W				
<b>Vmp</b>	42.2V	42.5V	42.8V	43.1V	43.4V
<b>Imp</b>	11.38A	11.42A	11.45A	11.49A	11.53A
<b>Voc</b>	50.70V	50.90V	51.10V	51.30V	51.50V
<b>Isc</b>	11.97A	12.01A	12.05A	12.09A	12.13A
<b>Max.Syst.Oper. Voltage</b>	1500V				
<b>Glass</b>	2.5mm high permeability, anti-reflective coating tempering glass				
<b>Dimension</b>	2187*1102*35mm				
<b>Weight</b>	30.10kgs				
<b>Operate Temp. Scope</b>	-40/+85℃				
<b>Warranty</b>	10-year product warranty, 30-year linear power guarantee				
<b>STC</b>	Irradiance 1000 W/m <sup>2</sup> , module temperature 25℃, AM=1.5				
<b>Mechanical parameter</b>					
<b>Solar cell</b>	Monocrystalline				
<b>Front glass</b>	2.0 height transmittance, AR coating thermal strengthening glass				
<b>Encapsulation material</b>	POE / EVA				
<b>Back glass</b>	Thermal strengthening glass (white reseal)				
<b>Frame</b>	35mm Anodized aluminum alloy				
<b>Junction box</b>	IP68				
<b>Cable</b>	4.0mm <sup>2</sup> PV CABLE Vertical installation: Negative wires 280mm / Positive wires 280mm Transverse installation: Negative wires 2000mm / Positive wires 2000mm				
<b>Connectors</b>	TS4 / MC4-EVO2				



组件的I-V曲线 (490W)



Guaranteed power guarantee

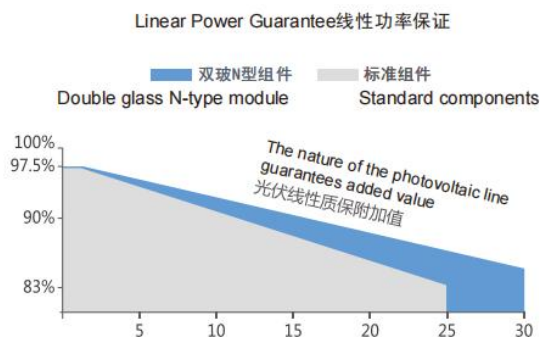
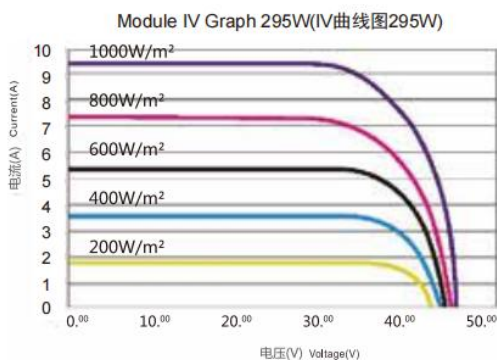


双玻组件功率保证  
Double glass module power guarantee

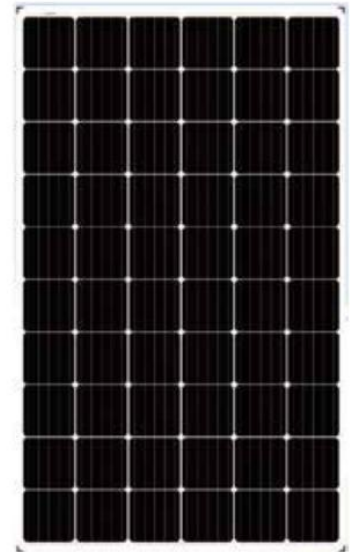
<b>Module</b>	FS-M60-285~270W			
<b>Pmax</b>	285W	280W	275W	270W
<b>Size and number of cells</b>	156.75*156.75mm, 60pcs/6*10			
<b>Tolerance</b>	0~+5%			
<b>Vmp</b>	31.80V	31.60V	31.40V	31.20V
<b>Imp</b>	8.96A	8.86A	8.76A	8.65A
<b>Voc</b>	38.90V	38.70V	38.50V	38.30V
<b>Isc</b>	9.54A	9.46A	9.38A	9.29A
<b>Max.Syst.Oper.Voltage</b>	1500V			
<b>Glass</b>	2.5mm high permeability, anti-reflective coating tempering glass			
<b>Dimension</b>	1658*992*6mm			
<b>Weight</b>	23kgs			
<b>Operate Temp. Scope</b>	-40/+85°C			
<b>Warranty</b>	10-year product warranty, 30-year linear power guarantee			
<b>STC</b>	Irradiance 1000 W/m <sup>2</sup> , module temperature 25°C, AM=1.5			



<b>Module</b>	FS-M60-300~285W			
<b>Pmax</b>	300W	295W	290W	285W
<b>Size and number of cells</b>	156.75*156.75mm, 60pcs/6*10			
<b>Tolerance</b>	0~+5%			
<b>Vmp</b>	32.40V	32.20V	32.00V	31.80V
<b>Imp</b>	9.26A	9.16A	9.06A	8.96A
<b>Voc</b>	39.50V	39.30V	39.10V	38.90V
<b>Isc</b>	9.77A	9.69A	9.63A	9.54A
<b>Max.Syst.Oper.Voltage</b>	1500V			
<b>Glass</b>	2.5mm high permeability, anti-reflective coating tempering glass			
<b>Dimension</b>	1658*992*6mm			
<b>Weight</b>	23kgs			
<b>Operate Temp. Scope</b>	-40/+85°C			
<b>Warranty</b>	10-year product warranty, 30-year linear power guarantee			
<b>STC</b>	Irradiance 1000 W/m <sup>2</sup> , module temperature 25°C, AM=1.5			



<b>Module</b>	FS-M60-335~320W double sides and double glass			
<b>Pmax</b>	335W	330W	325W	320W
<b>Size and number of cells</b>	156*156.75mm, 60pcs/6*10			
<b>Tolerance</b>	0~+5%			
<b>Vmp</b>	32.40V	32.20V	32.10V	31.90V
<b>Imp</b>	10.34A	10.25A	10.14A	10.04A
<b>Voc</b>	39.40V	39.20V	39.00V	38.80V
<b>Isc</b>	10.90A	10.81A	10.72A	10.63A
<b>Max.Syst.Oper.Voltage</b>	1500V			
<b>Glass</b>	2.5mm high permeability, anti-reflective coating tempering glass			
<b>Dimension</b>	1658*992*6mm			
<b>Weight</b>	23kgs			
<b>Operate Temp. Scope</b>	-40/+85℃			
<b>Warranty</b>	10-year product warranty, 30-year linear power guarantee			
<b>STC</b>	Irradiance 1000 W/m <sup>2</sup> , module temperature 25℃, AM=1.5			



<b>Module</b>	FS-M-425~455W double sides and half-cell						
<b>Pmax</b>	425W	430W	435W	440W	445W	450W	455W
<b>Size and number of cells</b>	166*83mm, 144pcs/6*24						
<b>Tolerance</b>	0~+5%						
<b>Vmp(V)</b>	40.40	40.60	40.80	41.00	41.20	41.40	41.60
<b>Imp(A)</b>	10.52	10.60	10.66	10.73	10.80	10.87	10.93
<b>Voc(V)</b>	48.70	48.90	49.10	49.20	49.40	49.60	49.80
<b>Isc(A)</b>	11.22	11.30	11.36	11.45	11.52	11.58	11.65
<b>Max.Syst.Oper.Voltage</b>	1500V						
<b>Glass</b>	2.5mm high permeability, anti-reflective coating tempering glass						
<b>Dimension</b>	2094*1038*35mm						
<b>Weight</b>	27.5kgs						
<b>Operate Temp. Scope</b>	-40/+85℃						
<b>Warranty</b>	10-year product warranty, 30-year linear power guarantee						
<b>STC</b>	Irradiance 1000 W/m <sup>2</sup> , module temperature 25℃, AM=1.5						

