High-efficiency & low-attenuation

achieve high-efficiency monocrystalline modules with attenuation below 2% within one year.

Good power generation performance in shaded

A specially designed battery and components reduce shadow occlusion-related power loss.

Strong resistance to hot sports

Using advanced silicon wafer and battery technology, we can
The local temperature rise caused by hot spots is significantly reduced by a lower internal current.

> Adapt to high temperature and high radiation environment High-irradiation and high-temperature areas produce the greatest power generation gains.







Increase package power

With its low current characteristics, it increases the package power of the module by 5-10W and significantly reduces the electrical transmission loss after the system is installed. There is a potential for a 2%-3% increase in the annual power generation, based on the experimental data.

Reduce hot spot damage

By taking advantage of the low current characteristics of half-cell modules, you can reduce the risk of hot spots, increase the service life of the modules, and prevent shadow damage to the modules, and they are more suitable for use on roofs.

Reduce heat, reduce temperature

When current flows through a component's solder ribbon, it will cause Joule hearing. As a result of half-slicing, the current will be half that of the conventional component, reducing the Joule heat and lowering the temperature by 1-2° C. Experiments show that the component can generate 1% more power per watt.

Reduce power loss when blocked

When the component is partially blocked in parallel or series circuit design, the power generation loss is reduced by up to 50%.

Module			FS-DE18M									
Pmax	480W	485W	490W									
Size and no. of cells		480W 485W 490W 495W 500W 210*70mm										
	150Pcs/5*30											
Tolerance	0~ +5W											
Vmp(V)	42.00	42.20	42.40	42.60	42.80							
Imp(A)	11.42	11.49	11.56	11.63	11.69							
Voc(V)	50.80	51.10	51.30	51.50	51.70							
Isc(A)	11.99	12.07	12.14	12.21	12.28							
Max.Oper.Voltage	1500V											
Glass												
			ve coating ter									
Dimension		2:	.76*1098*35r									
Weight			26.3kg	1098								
Operate Temp.			-40 ~ +85 ℃	35 1053								
Warranty		•	ar product wa									
CTO.			r linear powe	拖牌 Namepiste								
STC			diance 1000W	安装孔 Mounting holes								
		module te	mperature 25	C, AIVI=1.5		-						
Mechanical paramete	ar.					4-07×10 安班儿 Mounting holes						
Solar cell	<u> </u>		Monocrystallir			授线盒 Junction Box						
Glass	3.2		nsmission rate									
Encapsulation				-								
material			EVA									
Backsheet			White	6一提均引、Ground hole 12一派水引 Le sking hole								
Frame		35mm A	nodized alumi	9 3								
Junction box			IP68	1056								
Cables	4.0mm ² PV	4.0mm ² PV Cable										
	Vertical inst	allation:		佳密封胶 Slicone seal 硅密封胶 Slicone seal								
	negative wir	es 280mm/p	原压 Laminated 原压 Laminated									
	Transverse i			SS SS								
	negative wir	es 1400mm/	Positive wires	边框 Frame 边框 Frame								
Connectors		-	rs4 / MC4-EV(35 24.5 A-A B-B								
L-V curve(490	 W) 组件的 -V曲线	± (490\M\	· ·			1						
14.0	/ -ФПП V М	~ (+50 VV)	powe			Linear Power Guarantee线性功率保证						
12.0 1000W/m²			pead			组件功率保证						
80 B00W/m²			Guaranteed power 100% 88%			Module power guarantee						
8.0 BOOW/m² 8.0 GOOW/m² 4.0 400W/m²												
file 4.0 400w/m²			松 90%									
3.0			」 □ <u>₭</u> 84.8%									
2.0 200W/m² 1.0			4									
0 10 20		50 60		年数 Years	5 1	0 15 20 25						
电压(V) Voltage											

Module	FS-M-330W				
Pmax	330W				
Size and number of cells	156*78mm 120Pcs/6*20				
Tolerance	$\pm 3\%$				
Vmp	33.9V				
Imp	10.03A				
Voc	41.4V				
Isc	10.44A				
Max.Syst.Oper.Voltage	1000V				
Dioders	3 by-pass / 6 by-pass				
Dimension	1685*992*35mm				
Weight	18.5kg				
Operate Temp.	-40 ~ +85 ℃				
Relative humidity	0 to 100%				
Resistances	227g steel ball falls down from 1m high and 60m/s wind speed				
Warranty	Pm is not than 90% in 10years and 80% in 25years.				
STC	Irradiance 1000W/ m^2 , module temperature 25 $^{\circ}\mathrm{C}$, AM=1.5				



Module	FS-M-425-455W									
Pmax	425W	430W	435W	440W	445W	450W	455W			
Size and number of cells	166*83mm 144Pcs / 6*24									
Tolerance	0~ +5W									
Vmp(V)	40.50	40.70	40.90	41.10	41.30	41.50	41.70			
Imp(A)	10.50	10.57	10.64	10.71	10.78	10.85	10.92			
Voc(V)	48.30	48.50	48.70	48.90	49.10	49.30	49.50			
Isc(A)	11.23	11.31	11.39	11.46	11.53	11.60	11.66			
Max.Syst.Oper.Voltage	1500V									
Glass	2.5mm high permeability, anti-reflective coating tempering glass									
	2.5mm									
Dimension	2094*1038*35mm									
Weight	23.5kg									
Operate Temp.	-40 ~ +85 °C									
Warranty	10-year product warranty, 30-year linear power guarantee									
STC	Irradiance 1000W/ m^2 , module temperature 25 $^{\circ}\mathrm{C}$, AM=1.5									







