

## SolarVela Pro 轻质晶硅定制化组件

组件型号: ZKFN H1 011A 组件功率: 183-186W



**186W**

最大输出功率

**19.52%**

转换效率

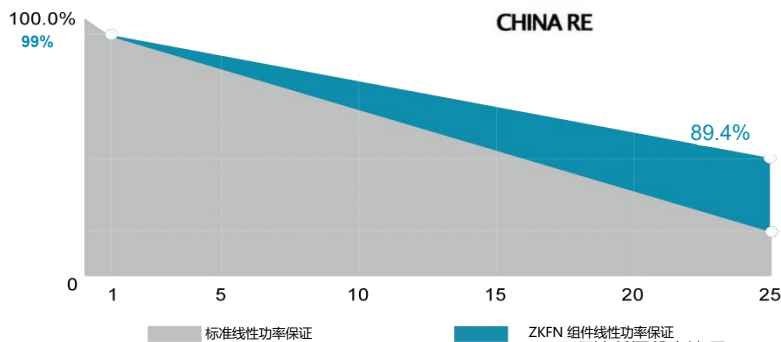
**0~+3W**

功率公差

功率质保25年



中国大地财产保险承保



### 产品及体系认证



※首年衰减小于1 →, 25年功率输出不低于89.4 →



**轻**

重量2.9 kg/m<sup>2</sup>, 低于传统玻璃组件重量的30%



**强**

业界首款冰雹冲击无隐裂, 功率零衰减柔性晶硅组件



**薄**

厚度1.8mm (不含接线盒), 是传统组件厚度的50%



**易**

系统无需支架, 原装面直接粘贴, 结构胶快速安装



**柔**

最小弯曲半径可达0.3m, 电池无隐裂, 功率无衰减



**美**

表面颜色和图案可定制化, 满足建筑美学要求



## 组件尺寸(mm)



## 电性能参数(STC\*)

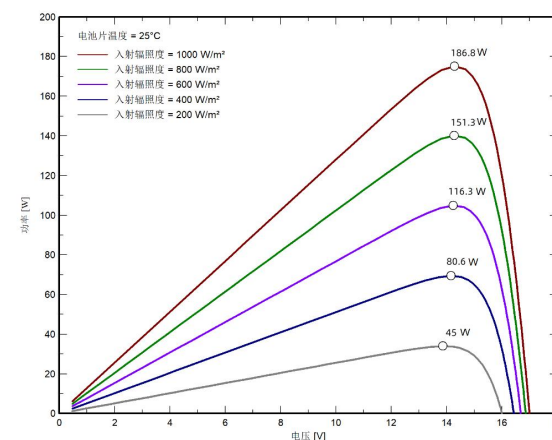
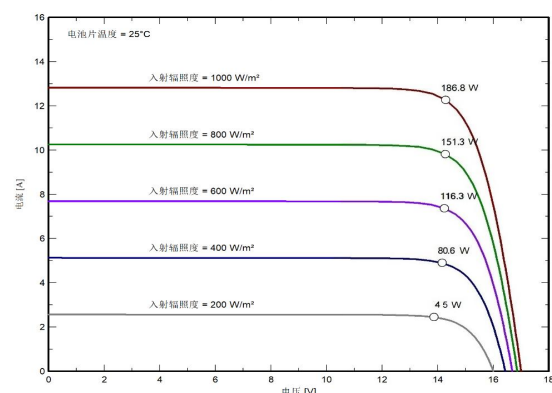
组件型号			ZKFN H1 011A-183	ZKFN H1 011A-186
峰值功率	PMPP	[W]	183	186
功率公差	0 ~ +3%	[W]	0 ~ 3W	0 ~ 3W
峰值电压	VMPP	[V]	30.12	30.19
峰值电流	IMPP	[A]	6.09	6.19
开路电压	Voc	[V]	35.30	35.36
短路电流	Isc	[A]	6.44	6.45
最大保险丝额定电流		[A]	25	
最大系统电压	IEC/UL	[V]	1500V DC(IEC)	

STC \* (标准测试条件):辐照度=1000W/m<sup>2</sup>,电池温度=25°C,AM=1.5, 测试误差±3%

## 温度系数

温度系数 (PMPP)	[%/°C]	-0.29
温度系数 (Voc)	[%/°C]	-0.26
温度系数 (Isc)	[%/°C]	+0.045
标称工作温度NOCT	°C	45±2°C

## 曲线特性图(186Wp)



## 机械参数

电池规格	Topcon电池 182.2mm*183.75mm
组件尺寸	1200*794*1.8mm
组件厚度	1.8mm (不含接线盒)
组件重量	2.9kg/m <sup>2</sup>
连接器	MC4兼容
接线盒	IP68
背板颜色	黑色/白色

## 应用参数

最大系统电压	DC1500V
功率公差	0 ~ +5W
工作温度	-40°C ~ +85°C
最大保险丝额定电流	25A
静态载荷	3600Pa

## SolarVela Pro

### Topcon Flexible Module

Module type: ZKFN H1 011A Peak-power: 186W



**186W**

Max-Power

**19.52%**

Max-Efficiency

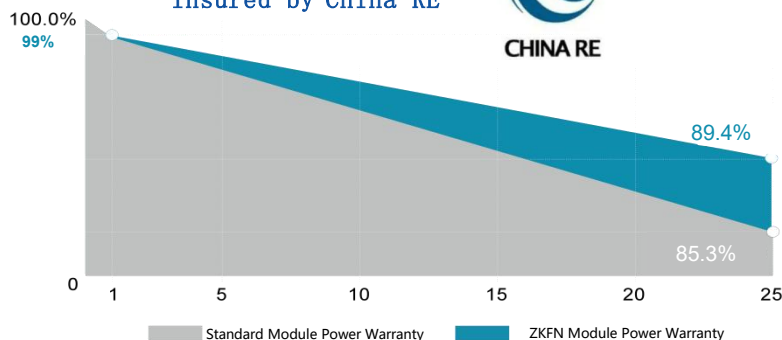
**0~+3W**

Power-tolerance

#### Reinsurance Coverage for 25 Years



Insured by China RE



※1st year degradation less than 1%, 25 years power output 89.4% guaranteed.

### Quality Assurance

IEC61215, IEC61730

ISO9001:2015



#### Low-weight

Areal weight: 2.9 kg/m<sup>2</sup>, Less than 30% of traditional glass-based solar modules



#### High-strength

World's only flexible C-Si solar panels which can pass 35 mm hail test



#### Thin

Thickness: 1.8 mm (junction box not included), Only 50% of traditional glass-based solar modules



#### Easy-to-install

No need for PV support bracket, modules can be directly bonded to installation surface by weather-resistant glue



#### Flexible

Smallest bending radius of 0.3 m, No cell cracks and no power losses



#### Aesthetics

Module's surface and texture can be customized to meet aesthetic requirements

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Add.: Workshop 1, XinShenglin, Green Sea Gateway Intelligent Manufacturing Industrial Park, Jining Economic and Technological Development Zone, Jining, Shandong



## Size(mm)



## Electrical performance parameters (STC\*)

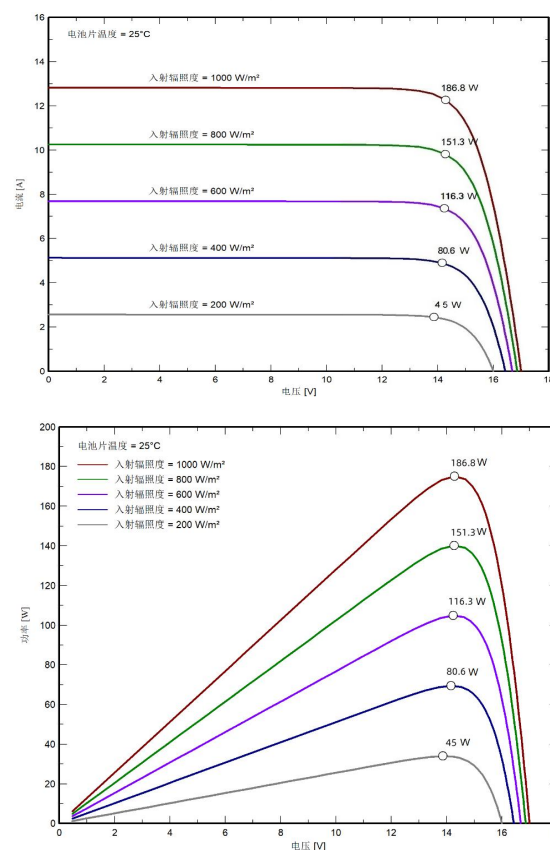
Module Type		ZKFN H1 011A-183	ZKFN H1 011A-186
Max-Power	PMPP [W]	183	186
Power Tolerance	[W]	0 ~ 3W	0 ~ 3W
Max-Power Voltage	VMPP [V]	30.12	30.19
Max-Power Current	IMPP [A]	6.09	6.19
Open-Circuit Voltage	Voc [V]	35.30	35.36
Short-Circuit Current	Isc [A]	6.44	6.45
Max. series fuse rating	[A]	25	
Max. system voltage	IEC/UL [V]	1500V DC	

STC\*: Irradiance=1000 W/m<sup>2</sup>, Module temperature=25°C, AM=1.5,  
Test uncertainty for Pmax:±3%

## Temperature coefficient

Temperature-coefficient of PMPP	[%/°C]	-0.29
Temperature-coefficient of Voc	[%/°C]	-0.26
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2

## Curve characteristic diagram (186Wp)



## Mechanical parameters

Cell Type	Mono PERC 182.2mm*183.75mm
Size	1200*794*1.8mm
Thickness	1.8mm (junction box not included)
Weight	2.9kg/m <sup>2</sup>
Connector	MC4 Compatible
Junction-box	IP68
Backboard color	White/black

## Application parameters

Max. system voltage	DC1500V
Power Tolerance	0 ~ +5W
Operating temperature range	-40°C ~ +85°C
Max. series fuse rating	25A
Mechanical Load	3600Pa