

SolarVela Pro 轻质晶硅定制化组件

组件型号: ZKFN I1 011A 组件功率: 91W



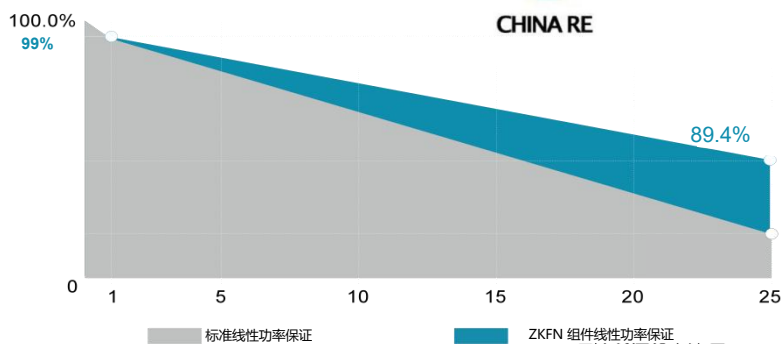
91W	17.80%	0~+5W
最大输出功率	转换效率	功率公差

功率质保25年

12年
质量保证

25年
功率质保

中国大地财产保险承保



※首年衰减小于1% →, 25年功率输出不低于89.4% →

产品及体系认证



轻

重量2.9 kg/m², 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

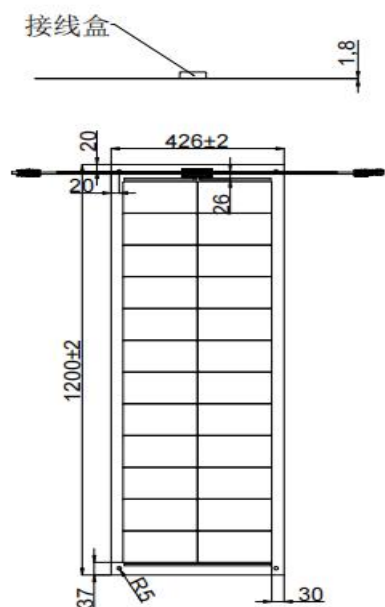


美

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*)

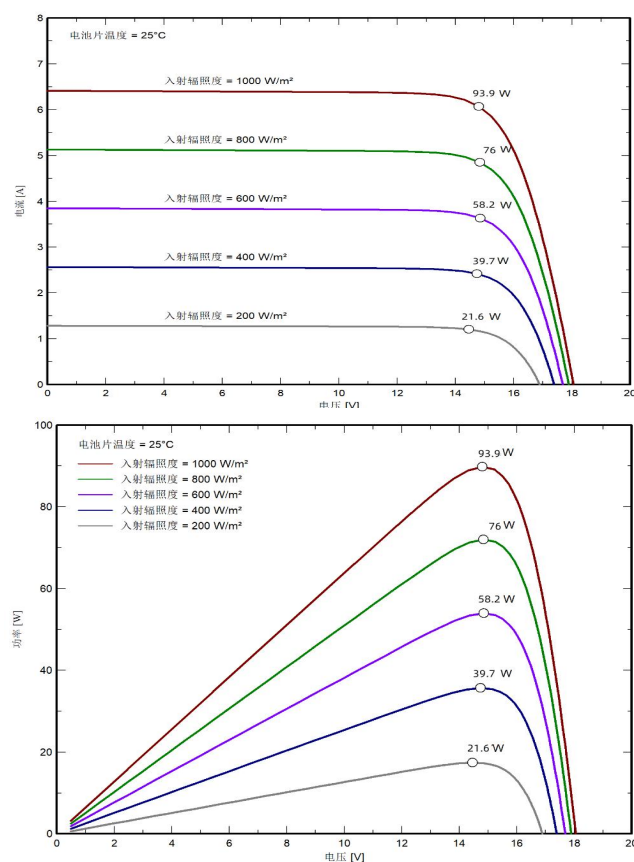
组件型号	ZKFN I1 011A-91		
峰值功率	PMPP	[W]	91
功率公差	0 ~ +3%	[W]	0 ~ 5W
峰值电压	VMPP	[V]	15.06
峰值电流	IMPP	[A]	6.09
开路电压	Voc	[V]	17.65
短路电流	Isc	[A]	6.44
最大保险丝额定电流		[A]	25
最大系统电压	IEC/UL	[V]	1500V DC(IEC)

STC * (标准测试条件):辐照度=1000W/m²,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(91Wp)



机械参数

电池规格	Topcon电池 182.2mm*183.75mm
组件尺寸	1200*426*1.8mm
组件厚度	1.8mm (不含接线盒)
组件重量	2.9kg/m ²
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



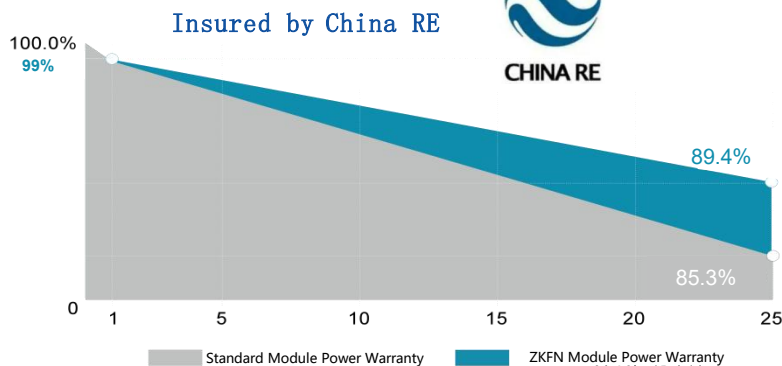
SolarVela Pro

Topcon Flexible Module

Module type: ZKFN I1 011A Peak-power: 91W

91W	17.80%	0~+5W
Max-Power	Max-Efficiency	Power-tolerance

Reinsurance Coverage for 25 Years



※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/m², 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

山东中科富能光电科技有限公司

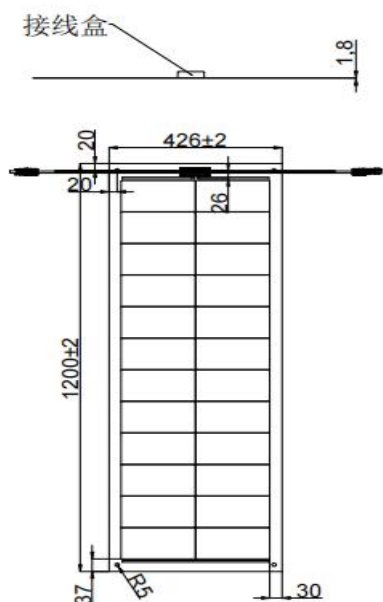
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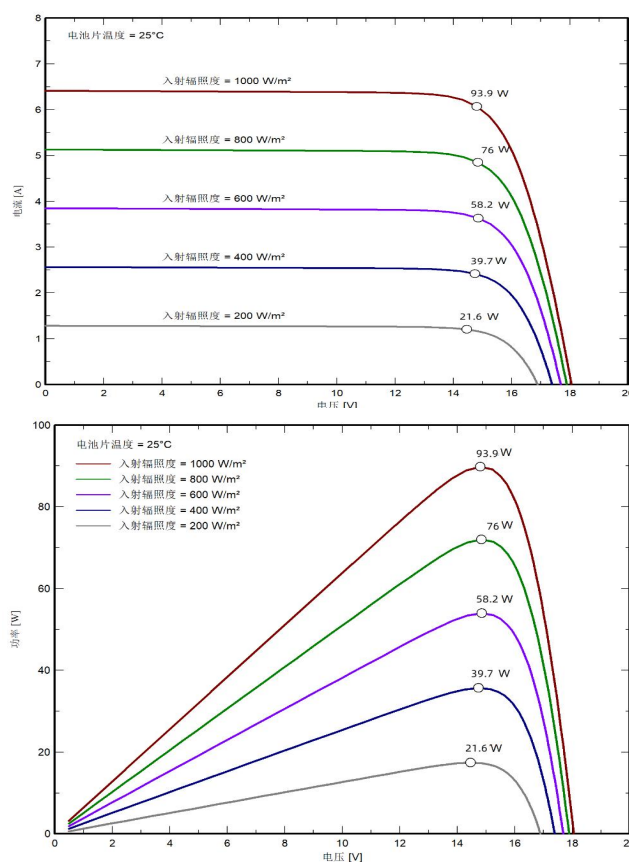
Add.: Workshop 1, XinShenglin, Green Sea Gateway Intelligent Manufacturing Industrial Park, Jining Economic and Technological Development Zone, Jining, Shandong



Size(mm)



Curve characteristic diagram (91Wp)



Electrical performance parameters (STC*)

Module Type			ZKFN I1 011A-91
Max-Power	PMPP	[W]	91
Power Tolerance		[W]	0 ~ 5W
Max-Power Voltage	VMPP	[V]	15.06
Max-Power Current	IMPP	[A]	6.09
Open-Circuit Voltage	Voc	[V]	17.65
Short-Circuit Current	Isc	[A]	6.44
Max. series fuse rating		[A]	25
Max. system voltage	IEC/UL	[V]	1500V DC

STC*: Irradiance=1000 W/m², Module temperature=25°C, AM=1.5,
Test uncertainty for Pmax:±3%

Mechanical parameters

Cell Type	Mono PERC 182.2mm*183.75mm
Size	1200*426*1.8mm
Thickness	1.8mm (junction box not included)
Weight	2.9kg/m²
Connector	MC4 Compatible
Junction-box	IP68
Backboard color	White/black

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

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