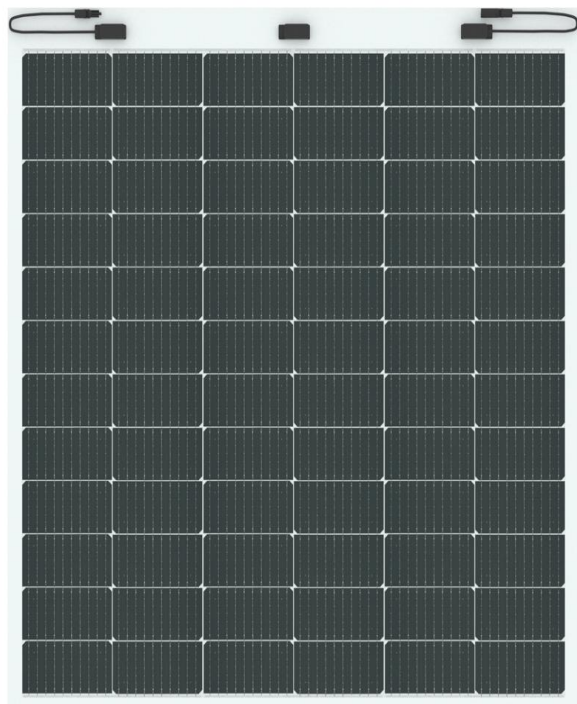




中科富能
ZKFN SOLAR

SolarVela Pro 轻质晶硅定制化组件

组件型号: ZKFN D1 010A 组件功率: 275-280W



280W

最大输出功率

20.36%

转换效率

0~+5W

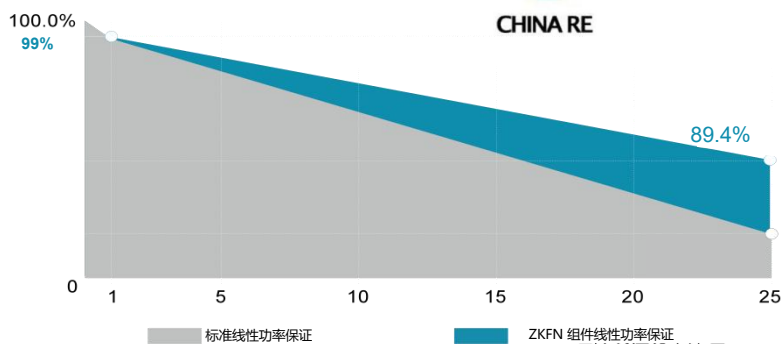
功率公差

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

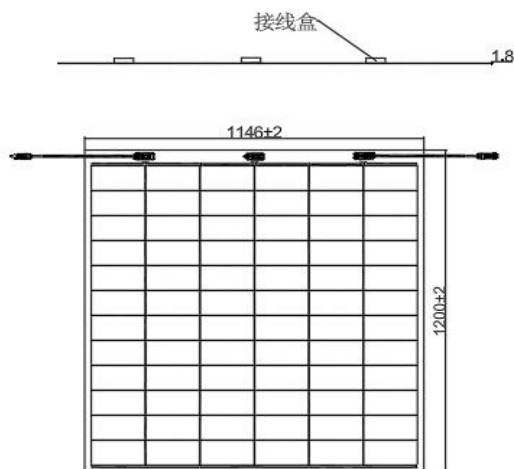


美

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 D1 010A-275 ZKFN D1 010A-280

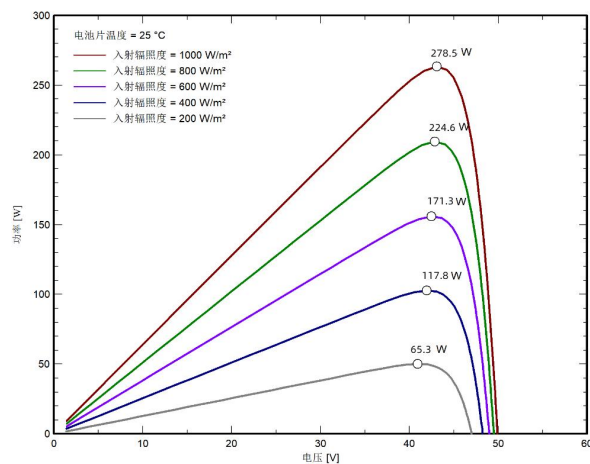
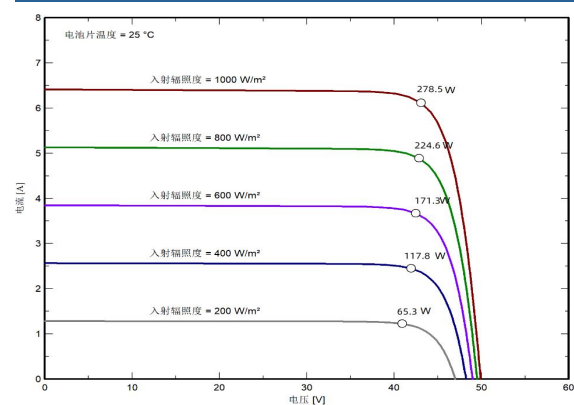
峰值功率	PMPP	[W]	275	280
功率公差	0 ~ +3%	[W]	0 ~ 5W	0 ~ 5W
峰值电压	VMPP	[V]	45.19	45.29
峰值电流	IMPP	[A]	6.09	6.19
开路电压	Voc	[V]	52.96	53.05
短路电流	Isc	[A]	6.44	6.48
最大保险丝额定电流		[A]	25	
最大系统电压	IEC/UL	[V]	1500V DC(IEC)	

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(280Wp)



机械参数

电池规格	Topcon电池 182.2mm*183.75mm
组件尺寸	1146*1200*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

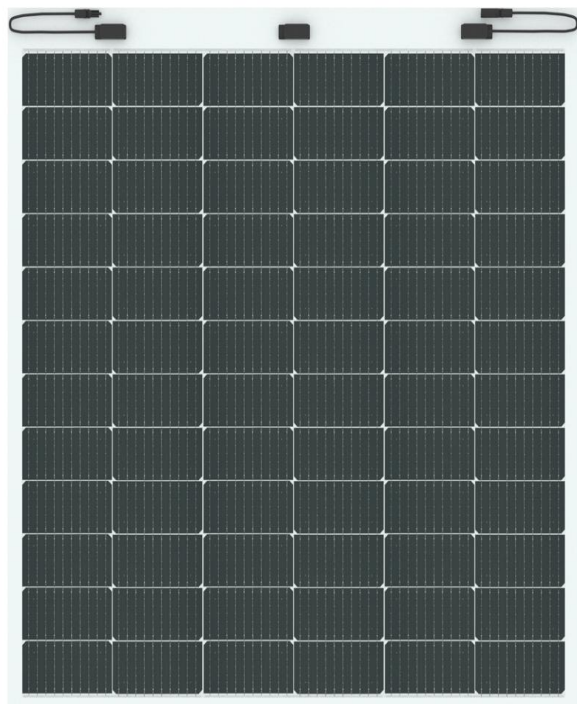
应用参数

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 D1 010A Peak-power: 275-280W



280W

Max-Power

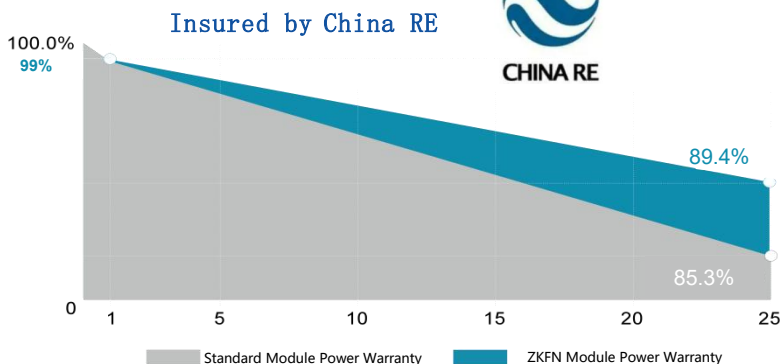
20.36%

Max-Efficiency

0~+5W

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

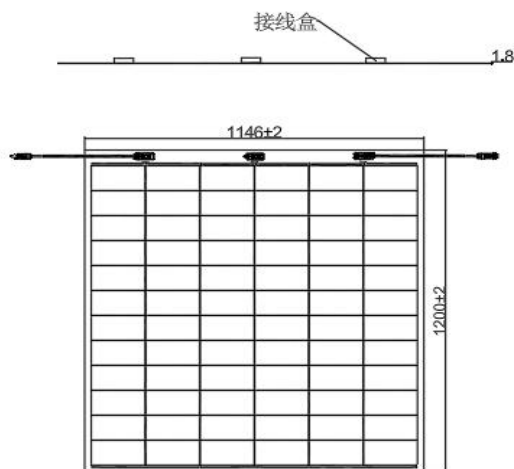
SHANDONG ZKFN SOLAR TECHNOLOGY CO.,LTD.

Tel.: 0086 400 6768 100 / 00866 199 0537 7053 Web.: www.zkfn-solar.com

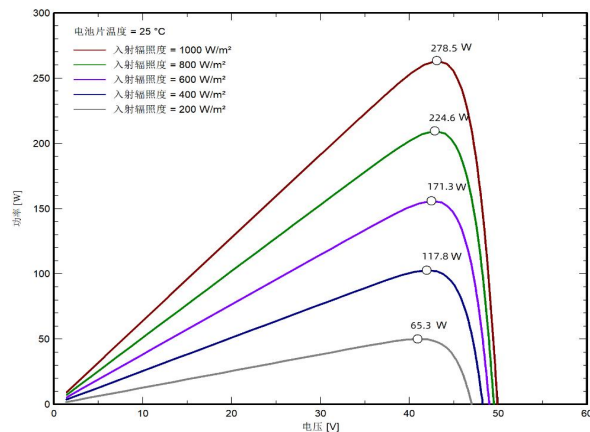
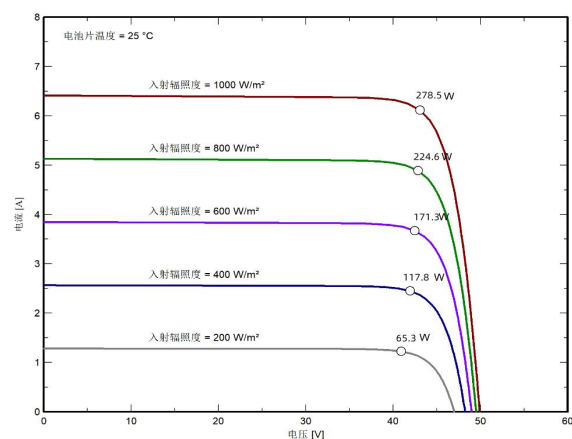
Add.: Workshop 1, XinShenglin, Green Sea Gateway Intelligent Manufacturing Industrial Park, Jining Economic and Technological Development Zone, Jining, Shandong



Size(mm)



Curve characteristic diagram (280Wp)



Electrical performance parameters (STC*)

Module Type ZKFN D1 010A-275 ZKFN D1 010A-280

Max-Power	PMPP	[W]	275	280
Power Tolerance		[W]	0 ~ 5W	0 ~ 5W
Max-Power Voltage	VMPP	[V]	45.19	45.29
Max-Power Current	IMPP	[A]	6.09	6.19
Open-Circuit Voltage	Voc	[V]	52.96	53.05
Short-Circuit Current	Isc	[A]	6.44	6.48
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	1146*1200*1.8mm
Thickness	1.8mm (junction box not included)
Weight	2.9kg/m ²
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