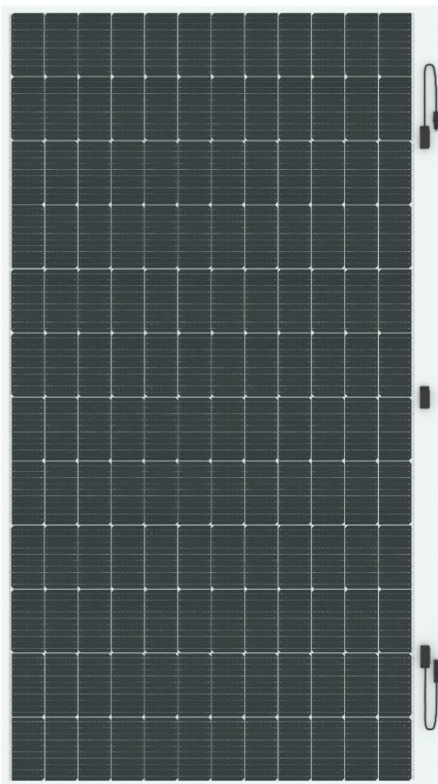




中科富能
ZKFN SOLAR

SolarVela轻质晶硅组件

组件型号: ZKFN B1 000A 组件功率: 510W-520W



520W	21.2%	0~+5W
最大输出功率	转换效率	功率公差

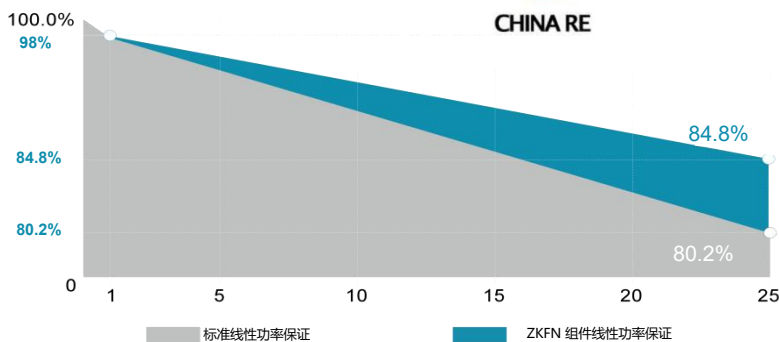
功率质保25年



中国大地财产保险承保



CHINA RE



※首年衰减小于2.0%，25年功率输出不低于84.8%。

产品及体系认证



ISO三体系认证



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

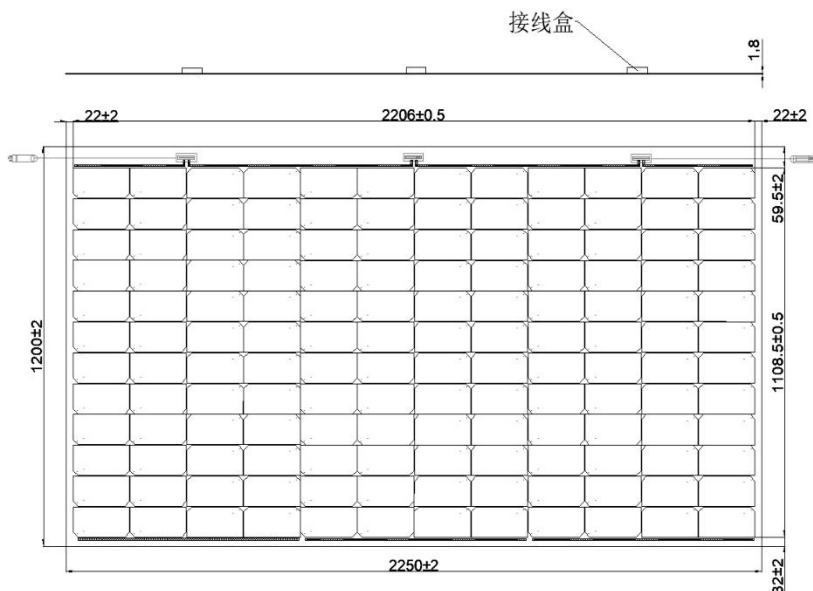


美

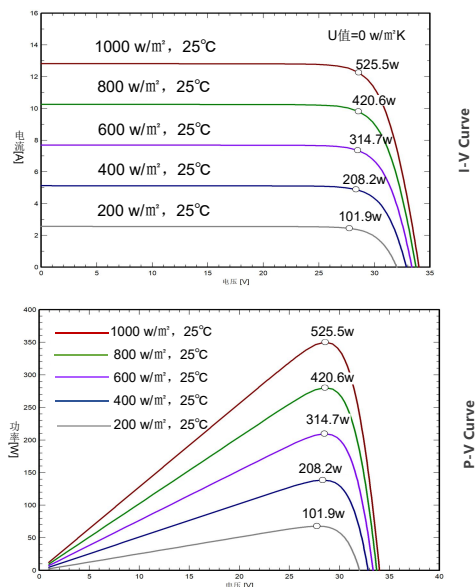
表面颜色和图案可定制化, 满足建筑美学要求



组件尺寸(mm)



曲线特性图(520Wp)



电性能参数(STC*)

组件型号		ZKFN B1 000A-510	ZKFN B1 000A-515	ZKFN B1 000A-520
峰值功率	PMPP [W]	510	515	520
功率公差	0~+3% [W]	0~5W	0~5W	0~5W
峰值电压	VMPP [V]	41.43	41.73	42.04
峰值电流	IMPP [A]	12.31	12.34	12.37
开路电压	Voc [V]	49.76	49.83	49.9
短路电流	Isc [A]	12.74	12.78	13.09
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%

电性能参数 (NMOT*)

组件型号		ZKFN B1 000A-510	ZKFN B1 000A-515	ZKFN B1 000A-520
峰值功率	PMPP [W]	395	399	403
峰值电压	VMPP [V]	38.10	38.37	38.64
峰值电流	IMPP [A]	10.37	10.4	10.43
开路电压	Voc [V]	46.1	46.17	46.24
短路电流	Isc [A]	10.72	10.76	10.84

NMOT * (组件标称工作温度条件):辐照度=800W/m²,环境温度=20°C,AM=1.5, 风速=1m/s

温度系数

温度系数 (PMPP)	[%/°C]	-0.34
温度系数 (Voc)	[%/°C]	-0.28
温度系数 (Isc)	[%/°C]	0.05
标称工作温度NOCT	°C	45±2°C

机械参数

电池规格	单晶PERC 182mm*182mm
组件尺寸	2250*1200*1.8mm
组件厚度	1.8mm (不含接线盒)
组件重量	7.6kg/片
输出线	4mm², 导线长度370mm (可按照客户需求订制)
连接器	MC4兼容
接线盒	IP68
背板颜色	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	正面5400Pa, 背面2400Pa

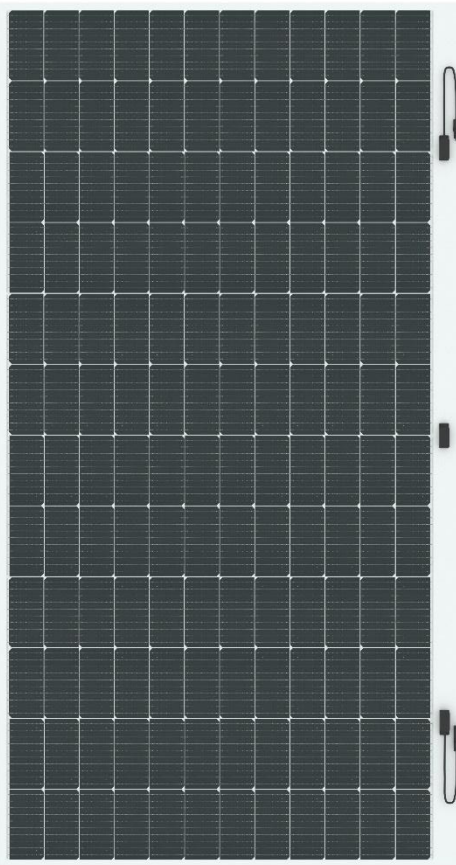
包装信息

运输方式	货柜大小	数量 (片)	数量 (每托)
货柜	40HQ	1260	70
平板拖车	13米	1400	70
平板拖车	17.5米	1960	70

Solar Vela

Mono PERC Flexible Module

Module type: ZKFN B1 000A Peak-power: 510W-520W

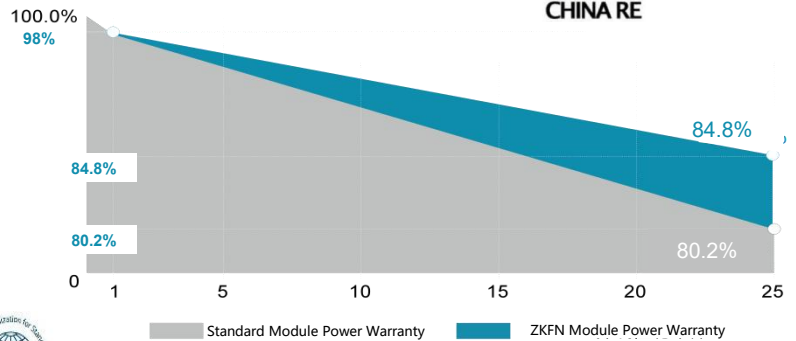


520W	21.2%	0~+5W
Max-Power	Efficiency	Power-tolerance

Reinsurance Coverage for 25 Years



Insured by China RE



※1st year degradation less than 2%, 25 years power output 84.8% guaranteed.

Quality Assurance



Low-weight

Areal weight: 2.9 kg/m², Less than 30% of traditional glass-based solar modules



High-strength

World's only C-Si flexible module which can endure hail-strike without cell cracks and power losses



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

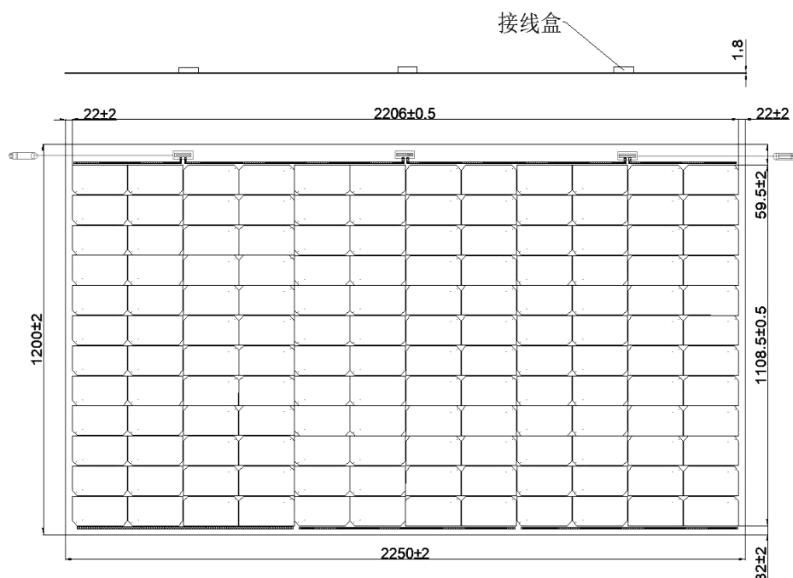
Smallest bending radius of 0.3 m, No cell cracks and no power losses



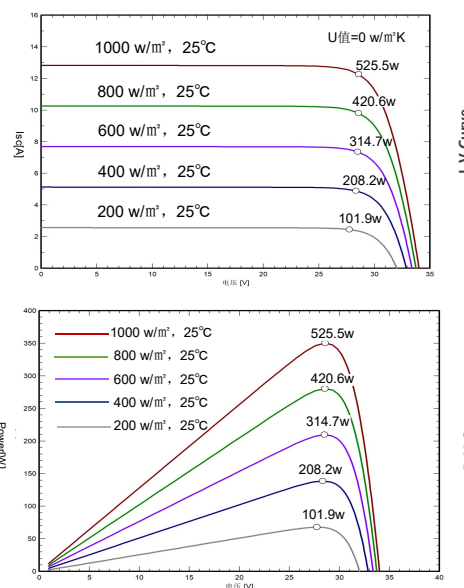
Aesthetics

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

Size (mm)



Curve characteristic diagram (520Wp)



Electrical performance parameters (STC*)

Module Type		ZKFN B1 000A-510	ZKFN B1 000A-515	ZKFN B1 000A-520
Max-Power	PMPP [W]	510	515	520
Power Tolerance	0~+3% [W]	0~5W	0~5W	0~5W
Max-Power Voltage	VMPP [V]	41.43	41.73	42.04
Max-Power Current	IMPP [A]	12.31	12.34	12.37
Open-Circuit Voltage	Voc [V]	49.76	49.83	49.9
Short-Circuit Current	Isc [A]	12.74	12.78	13.09
Max. series fuse rating	[A]		25	
Max. system voltage	IEC/UL [V]	1500V DC(IEC)		

STC*: Irradiance=1000 W/m², Module temperature=25°C, AM=1.5, test error ±3%

Mechanical parameters

Cell Type	Mono PERC 182mm*182mm
Size	2250*1200*1.8mm
Thickness	1.8mm (junction box not included)
Weight	7.6 kg/module
Connector	MC4 Compatible
Junction-box	Triad Junction box IP68
Backboard color	White

Electrical performance parameters (NMOT*)

Module Type		ZKFN B1 000A-510	ZKFN B1 000A-515	ZKFN B1 000A-520
Max-Power	PMPP [W]	395	399	403
Max-Power Voltage	VMPP [V]	38.10	38.37	38.64
Max-Power Current	IMPP [A]	10.37	10.4	10.43
Open-Circuit Voltage	Voc [V]	46.1	46.17	46.24
Short-Circuit Current	Isc [A]	10.72	10.76	10.84

NMOT*: Irradiance=800 W/m², Ambient temperature=20°C, Wind speed=1 m/s

Application parameters

Max. system voltage	DC 1500V
Power Tolerance	0~+5 W
Operating temperature range	-40 °C ~ +85°C
Max. series fuse rating	25 A
Mechanical Load	Front 5400Pa, Back 2400Pa

Temperature coefficient

Temperature-coefficient of PMPP	[%/°C]	-0.34
Temperature-coefficient of Voc	[%/°C]	-0.28
Temperature-coefficient of Isc	[%/°C]	0.05
NOCT	°C	45±2°C

Package

Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40' HQ	1260	70
Platform Trailer	13m	1400	70
Platform Trailer	17.5m	1960	70



中科富能
ZKFN SOLAR

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