

SolarPegaL 抗踩踏轻刚组件

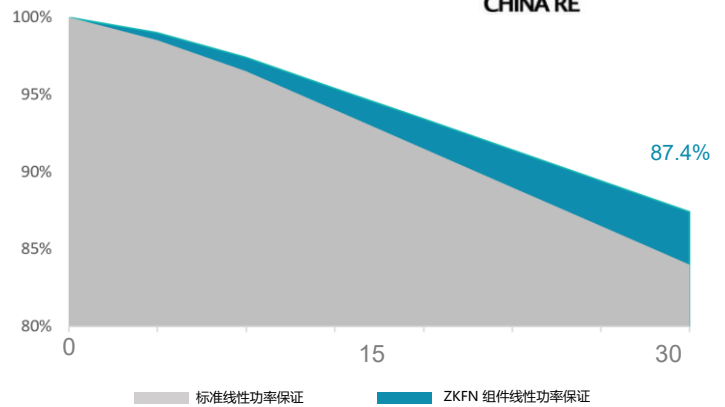
组件型号: ZKFN G2 120B 510W 组件功率: 490-510W

510W	22.9%	0~+5W
最大输出功率	转换效率	功率公差

功率质保30年



中国大地财产保险承保



※首年衰减小于1%，30年功率输出不低于87.4%。

产品及体系认证



产品特性



防积灰

组件无边框，雨水自清洁



抗踩踏

组件抗踩踏，踩踏后电池片不隐裂

※需着软底绝缘防滑鞋，体重不超过80kg



免加固

重量仅4.5kg/m²，较传统组件减重60%

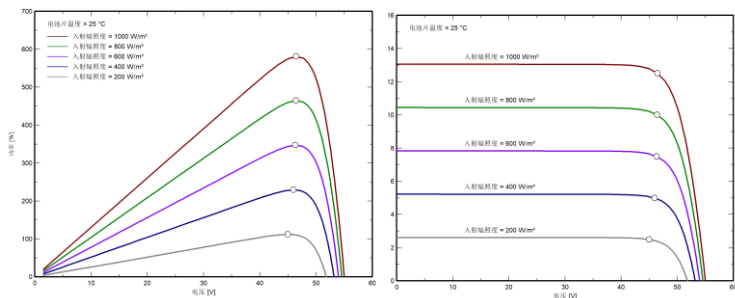


免支架

胶粘或Quick-clamp夹具安装，无需支架



曲线特性图



电性能参数(STC*)

组件型号	ZKFN G2 120B-500	ZKFN G2 120B-505	ZKFN G2 120B-510	
峰值功率	PMPP [W]	500	505	510
功率公差	[W]	0~+5		
峰值电压	VMPP [V]	33.70	33.81	33.91
峰值电流	IMPP [A]	14.84	14.94	15.05
开路电压	Voc [V]	39.94	40.08	40.23
短路电流	Isc [A]	15.47	15.53	15.58
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*)

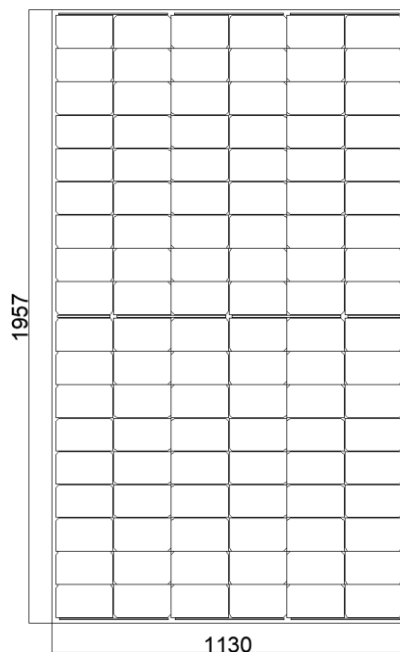
组件型号	ZKFN G2 120B-500	ZKFN G2 120B-505	ZKFN G2 120B-510	
峰值功率	PMPP [W]	385	388.8	392.7
峰值电压	VMPP [V]	26.96	27.05	27.13
峰值电流	IMPP [A]	13.95	14.04	14.14
开路电压	Voc [V]	32.35	32.46	32.59
短路电流	Isc [A]	14.69	14.75	14.80

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]	-0.33
温度系数 (Voc)	[%/°C]	-0.27
温度系数 (Isc)	[%/°C]	+0.045
标称工作温度NOCT	[°C]	45±2°C

组件尺寸(mm)



机械参数

电池规格	Topcon电池 182.3*105 mm
组件尺寸	1957*1130*2.7 mm (不含接线盒)
封装面板	1.1 mm 超薄钢化玻璃
组件重量	4.5±2% kg/m ²
输出线	4 mm ² , 导线长度370 mm (可按照客户需求订制)
接线盒	IP68 / MC4 兼容
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 3600 Pa, 背面 2400 Pa
通过冰雹测试	直径25mm, 冲击速度23m/s

包装信息

运输方式	货柜大小	数量 (箱)	数量 (每托)
货柜	40HQ	20	60
平板拖车	13米	20	60
平板拖车	17.5米	28	60



SolarPegaL Walkable

Light-weight Module

Module type: ZKFN G2 120B 510W Peak-power: 490-510W

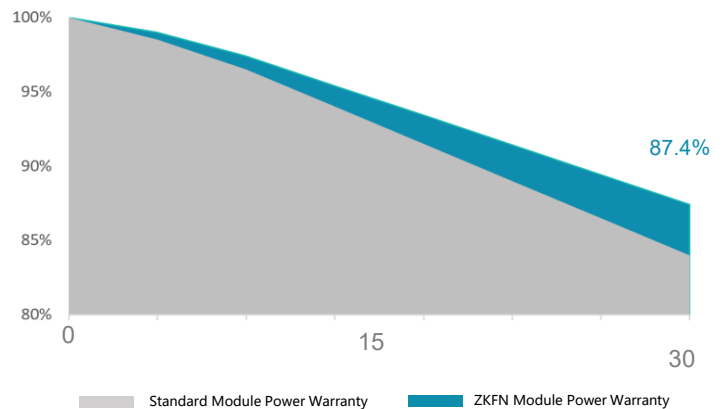
510W	22.9%	0~+5W
Max-Power	Efficiency	Power-tolerance

Reinsurance Coverage for 30 Years



Insured by China RE

Quality Assurance



※1st year degradation less than 1%, 30 years power output 87.4% guaranteed.

Product Features



Anti-dust

Frameless design, avoiding dust accumulation



Walkable

Modules can be stepped on, without cell micro-cracks after walking

※ Soft-soled electric-insulated non-slip shoes must be worn; body weight not exceeding 80 kg.



Light-weight

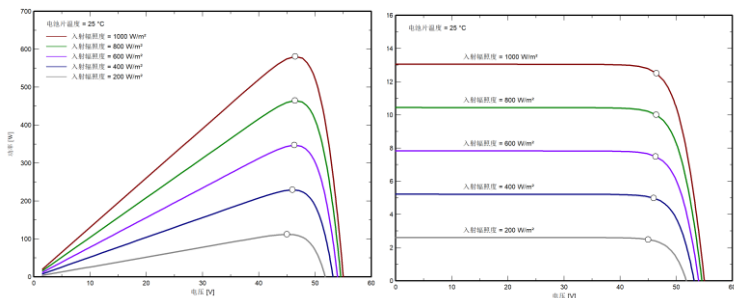
Weight only 4.5 kg/m², about 40% of traditional panels



Easy-to-install

Glue or Quick-clamp mounting, no rails required

Curve characteristic diagram



Electrical performance parameters (STC*)

Module Type			ZKFN G2 120B-500	ZKFN G2 120B-505	ZKFN G2 120B-510
Max-Power	PMPP	[W]	500	505	510
Power Tolerance		[W]	0~+5		
Max-Power Voltage	VMPP	[V]	33.70	33.81	33.91
Max-Power Current	IMPP	[A]	14.84	14.94	15.05
Open-Circuit Voltage	Voc	[V]	39.94	40.08	40.23
Short-Circuit Current	Isc	[A]	15.47	15.53	15.58
Max. series fuse rating		[A]	25		
Max-Power	IEC/UL	[V]	1500V DC(IEC)		

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

Electrical performance parameters (NMOT*)

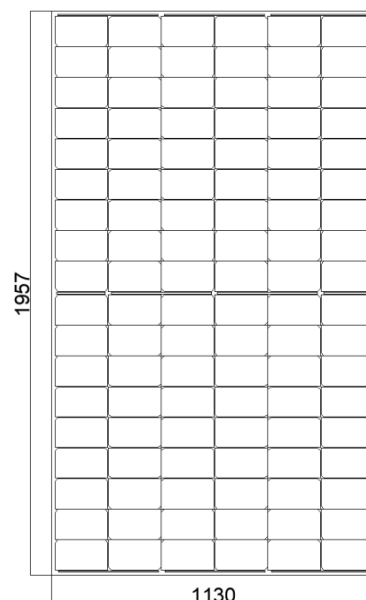
Module Type			ZKFN G2 120B-500	ZKFN G2 120B-505	ZKFN G2 120B-510
Max-Power	PMPP	[W]	385	388.8	392.7
Max-Power Voltage	VMPP	[V]	26.96	27.05	27.13
Max-Power Current	IMPP	[A]	13.95	14.04	14.14
Open-Circuit Voltage	Voc	[V]	32.35	32.46	32.59
Short-Circuit Current	Isc	[A]	14.69	14.75	14.80

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

Temperature coefficient

Temperature-coefficient of PMPP	[%/°C]	-0.33
Temperature-coefficient of Voc	[%/°C]	-0.27
Temperature-coefficient of Isc	[%/°C]	+0.045
NOCT	[°C]	45±2°C

Size (mm)



Mechanical parameters

Cell Type	Topcon cell 182.3*105 mm
Dimension	1957*1130*2.7 mm(junction box not included)
Glass	Single glass, 1.1 mm strengthened glass
Weight	4.5±2% kg/m ²
Connector	4 mm ² , Wire length 370 mm (customizable)
Junction-box	IP68 / MC4 Compatible
Backsheet color	White

Application parameters

Max. system voltage	DC1500V
Power Tolerance	0~+5W
Operating temperature range	-40°C ~ +85°C
Max. series fuse rating	25A
Mechanical Load	Front 3600 Pa, Back 2400 Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Package

Transportation	Container size	Quantity (pcs)	Quantity (per pallet)
Container	40HQ	20	60
Platform Trailer	13m	20	60
Platform Trailer	17.5m	28	60

