



中科富能
ZKFN SOLAR



SolarPegaF 抗踩踏轻刚组件

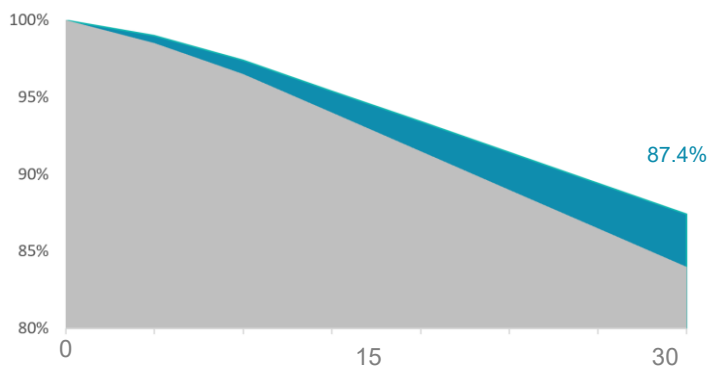
组件型号: ZKFN G2 222B 520W 组件功率: 510-520W

520W	23.4%	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



防积灰

边框与组件平齐设计，四面防积灰



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7.3kg/m²，较传统组件减重40%

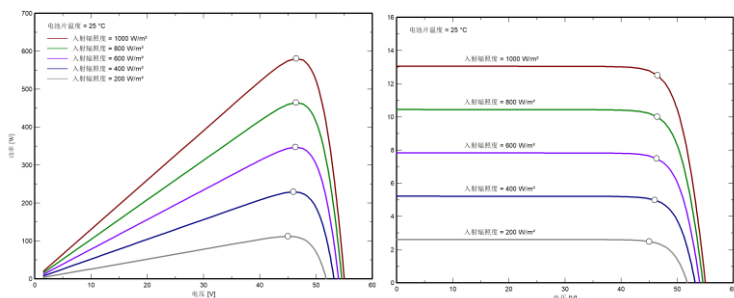


免支架

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 222B-510	ZKFN G2 222B-515	ZKFN G2 222B-520
峰值功率	PMPP	[W]	510	515	520
功率公差		[W]		0~+5	
峰值电压	VMPP	[V]	33.58	33.69	33.79
峰值电流	IMPP	[A]	15.19	15.29	15.4
开路电压	Voc	[V]	39.46	39.61	39.78
短路电流	Isc	[A]	15.73	15.78	15.84
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 *)

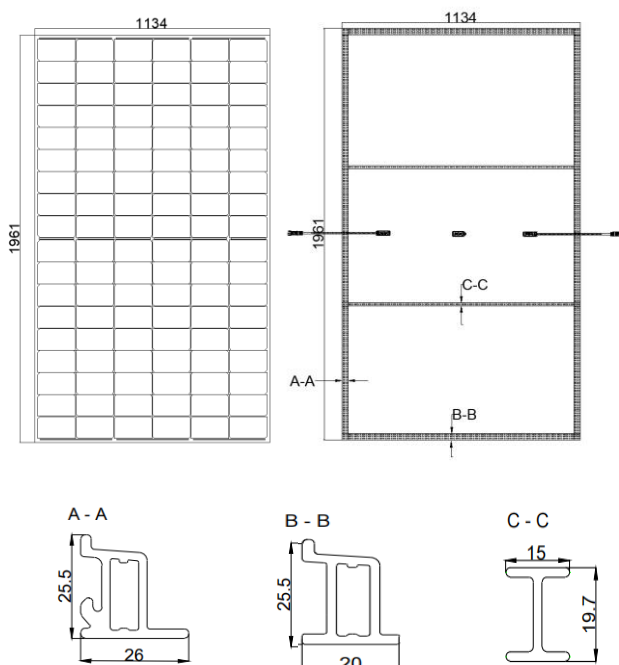
组件型号			ZKFN G2 222B-510	ZKFN G2 222B-515	ZKFN G2 222B-520
峰值功率	PMPP	[W]	392.76	396.64	400.68
峰值电压	VMPP	[V]	26.86	26.95	27.03
峰值电流	IMPP	[A]	14.28	14.37	14.48
开路电压	Voc	[V]	31.96	32.08	32.22
短路电流	Isc	[A]	14.94	14.99	15.05

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	1961*1134*25.5 mm
封装面板	1.6 mm镀膜半钢化玻璃
边框	高强度玻纤树脂复合材料
组件重量	7.3±2% kg/m²
输出线	4mm², 导线长度370mm (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	40
平板拖车	13米	20	40
平板拖车	17.5米	28	40



SolarPegaF Walkable

Light-weight Module

Module type: ZKFN G2 222B 520W Peak-power: 510-520W

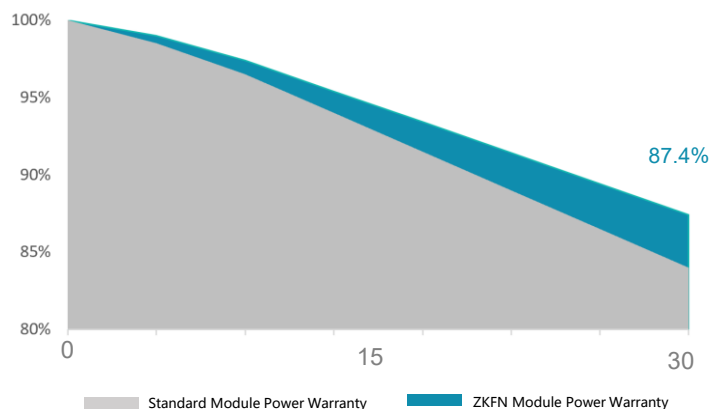
520W	23.4%	0~+5W
Max-Power	Efficiency	Power-tolerance

Reinsurance Coverage for 30 Years



Insured by China RE

Quality Assurance



Product Features



Anti-dust

Flush frame design, avoiding dust accumulation



Light-weight

Weight only 7.3 kg/m², about 40% of traditional panels



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.

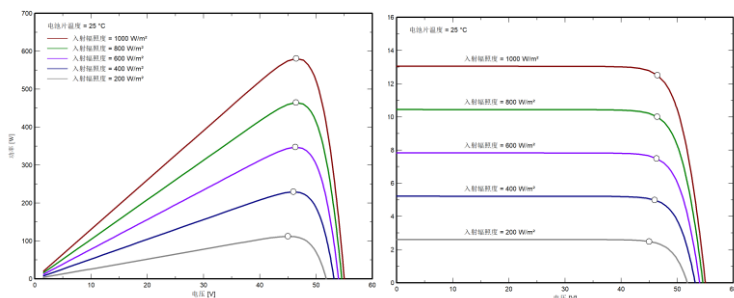


Easy-to-install

Quick-clamp mounting, no rails required

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

Curve characteristic diagram



Electrical performance parameters (STC*)

Module Type			ZKFN G2 222B-510	ZKFN G2 222B-515	ZKFN G2 222B-520
Max-Power	PMPP	[W]	510	515	520
Power Tolerance		[W]	0~+5		
Max-Power Voltage	VMPP	[V]	33.58	33.69	33.79
Max-Power Current	IMPP	[A]	15.19	15.29	15.4
Open-Circuit Voltage	Voc	[V]	39.46	39.61	39.78
Short-Circuit Current	Isc	[A]	15.73	15.78	15.84
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*)

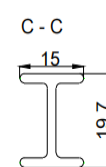
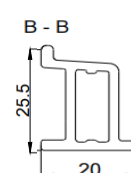
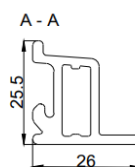
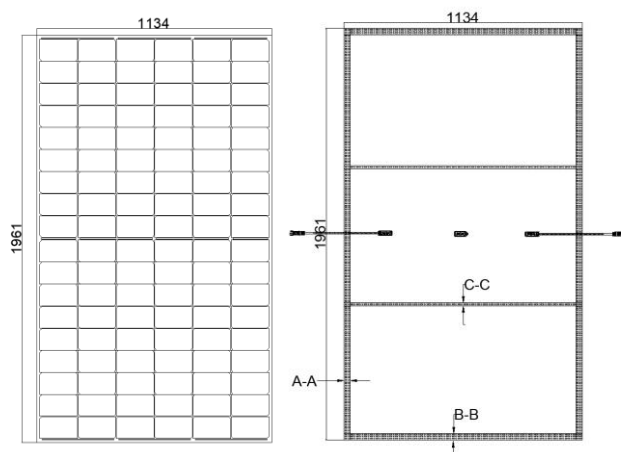
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Short-Circuit Current	Isc	[A]	14.94	14.99	15.05

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	1961*1134*25.5 mm
Glass	Single glass, 1.6 mm heat-strengthened glass
Frame	High-strength glass-fiber resin composite
Weight	7.3±2% kg/m²
Connector	4 mm², 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	40
Platform Trailer	13m	20	40
Platform Trailer	17.5m	28	40



中科富能
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