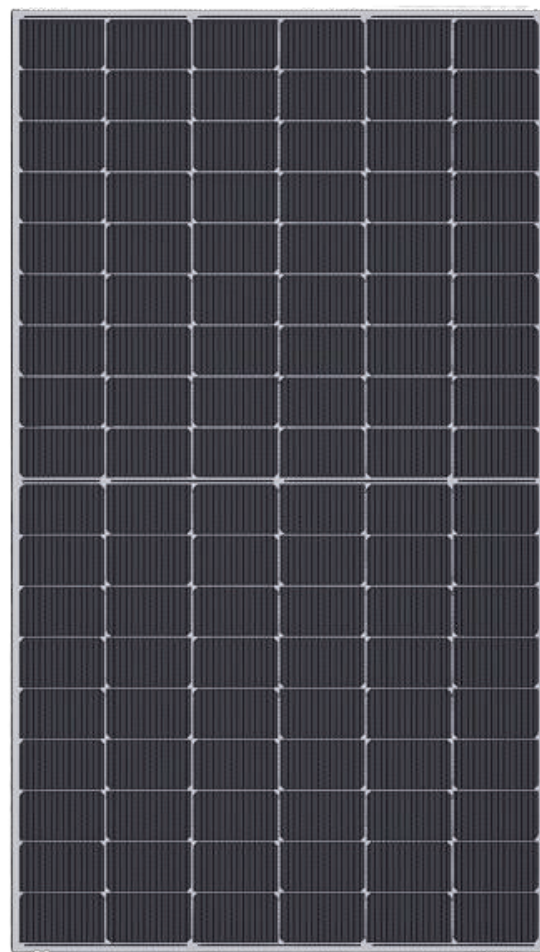


SOLAR N PLUS

抗踩踏轻刚组件

Walkable Light-weight Module

SP-N16B/108H510-520W



520W

最高组件功率输出
Maximum Power

23.5%

最高组件效率
Module Efficiency

0~+5W

组件功率公差
Power Tolerance

产品特性 PRODUCT CHARACTERISTICS



防积灰 Anti-dust

组件无边框，雨水自清洁

Frameless design, avoiding dust accumulation



抗踩踏 Walkable

踩踏后电池片不隐裂

Without cell micro-cracks after walking



免加固 Light-weight

重量仅5.9kg/m²，较传统组件减重50%

Weight only 5.9 kg/m², about 50% of traditional panels



免支架 Easy-to-install

胶粘或Quick-clamp夹具安装，无需支架

Glue or Quick-clamp mounting, no rails required

保险 INSURANCE



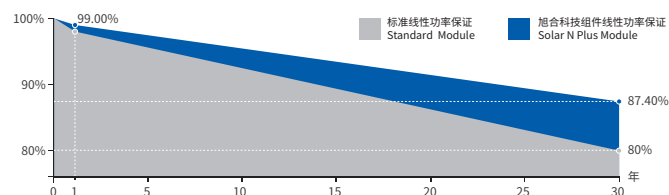
中国平安
PINGAN

认证 CERTIFICATION



- ISO 9001: 2015/质量管理体系 quality management system
- ISO 14001: 2015/环境管理体系 environment management system
- ISO 45001: 2018/职业健康安全管理体系 occupation health safety management system

线性功率保证 WARRANTY



材料工艺质保

Guarantee on product material and workmanship



线性功率质保

Linear power output warranty



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电话 Tel: 0550-3012191

网址 web: www.solarnplus.com

电性能参数 ELECTRICAL CHARACTERISTICS (STC)

最大功率 Maximum Power (Pm)	W	510	515	520
功率公差 Power Tolerance	W		0~+5	
最佳工作电压 Maximum Power Voltage (Vm)	V	33.58	33.69	33.79
最佳工作电流 Maximum Power Current (Im)	A	15.19	15.29	15.40
开路电压 Open Circuit Voltage (Voc)	V	39.46	39.61	39.78
短路电流 Short Circuit Curren (Isc)	A	15.73	15.78	15.84

STC:AM=1.5, 辐照度 irradiance 1000W/m², 组件温度 module temperature 25°C

电性能参数 ELECTRICAL CHARACTERISTICS (NMOT)

最大功率 Maximum Power (Pm)	W	392.76	396.64	400.68
最佳工作电压 Maximum Power Voltage (Vm)	V	26.86	26.95	27.03
最佳工作电流 Maximum Power Current (Im)	A	14.28	14.37	14.48
开路电压 Open Circuit Voltage (Voc)	V	31.96	32.08	32.22
短路电流 Short Circuit Current (Isc)	A	14.94	14.99	15.05

NMOT: 辐照度 irradiance 800W/m², 环境温度 environment temperature 20°C, 风速 wind speed 1m/s

机械性能 MECHANICAL SPECIFICATIONS

组件尺寸 External Dimension (L×W×H)	1957×1130×2.7mm (不含接线盒 Junction box not included)
组件重量 Weight	5.9±2% kg/m²
电池类型 Solar Cell	Topcon cell
电池数量 Number of Cells	108 (6×18)
背板 Backsheet	白色 White PV Backsheet
接线盒防护等级 Junction Box	IP68
电缆规格 Output Cables	4mm², 370mm或客户定制 4mm², 370mm or customized length
连接器 Connector	MC4兼容 MC4 Compatible

工作条件 APPLICATION CONDITIONS

最大系统电压 Maximum System Voltage	1500VDC
最大保险丝额定电流 Maximum Series Fuse Rating	25A
工作温度范围 Operating Temperature	-40°C~+85°C
机械载荷 Mechanical Load	5400Pa / 2400Pa
应用等级 Application Rating	Class A

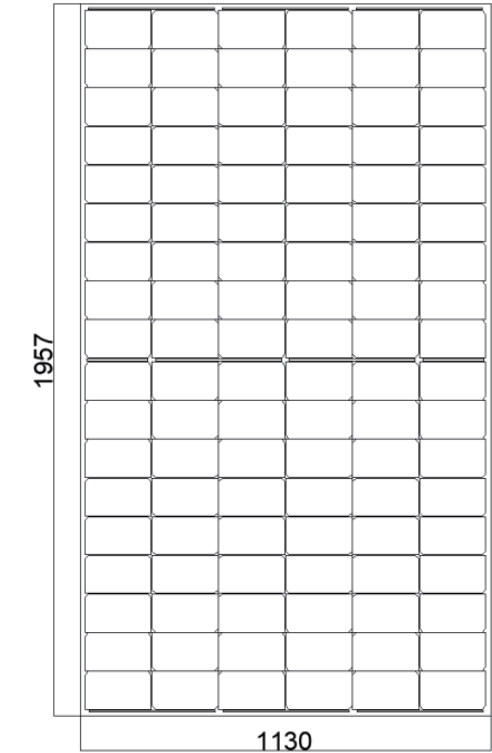
温度系数 TEMP CHARACTERISTICS

电池额定工作温度 Nominal Module Operating Temperature (NOCT)	45±2°C
功率温度系数 Temperature Coefficient of Pmax	-0.33%/°C
电压温度系数 Temperature Coefficient of Voc	-0.27%/°C
电流温度系数 Temperature Coefficient of ISC	0.045%/°C

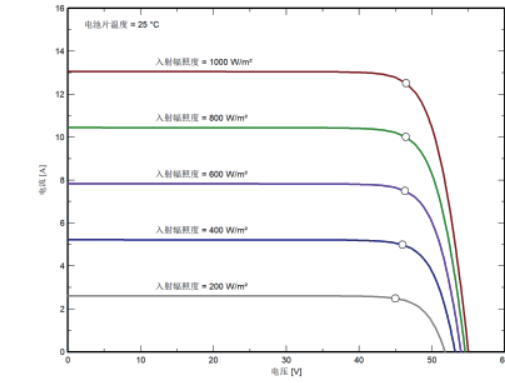
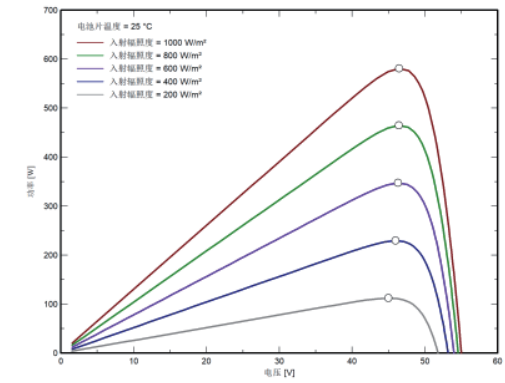
包装 PACKING CONFIGURATION

集装箱 Container	40 'HC	13m	17.5m
每托数量 Pieces per Pallet	40	40	40
整箱数量 Pieces per Container	800	800	1120

组件尺寸 TECHNICAL DRAWING



IV曲线 I-V CURVE



SP-N16B/108H510-520W