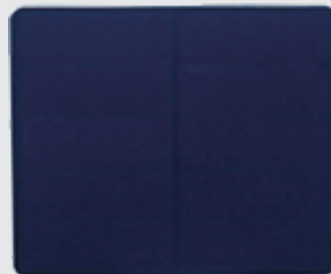
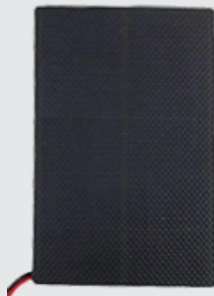


## Solarparts@\_SMT series Solar Modules

### Solarparts@\_SMT系列太阳能组件



### Why choose Solarparts@\_SMT series Solar Modules?

Solarparts@\_SMT series Solar Modules are made with SP highest-efficiency solar cells. It delivers the most power and highest charging efficiency in its product class. Through cutting solar cells into small pieces to meet different voltage and current requirements, and then encapsulating the solar cells with glass fiberboard, EVA, PET, ETFE, etc. Solar Modules can link together in parallel or series for faster charging to match solar DIY products. Solar Modules are certified by FCC, RoHS, CE, ISO, IEC to ensure safety, reliability, high quality, energy-saving, and environmental protection.

为什么选择Solarparts@\_SMT系列太阳能组件?

Solarparts@\_SMT 系列太阳能组件采用 SP 最高效率太阳能电池制成。它提供同类产品中的最大的功率和最高的充电效率。通过将太阳能电池切割成小块以满足不同的电压和电流要求，然后用玻纤板、EVA、PET、ETFE等封装太阳能电池。太阳能组件可以并联或串联在一起，以加快充电速度，从而与太阳能DIY产品相匹配。太阳能组件通过FCC，RoHS，CE，ISO，IEC认证，以确保安全可靠，品质优良，并且节能环保。

## ☆ Features 特征



### [Advantages of SMT chip processing]

High assembly density, smaller size and lighter weight of electronic products. High reliability and strong anti-vibration ability. Solder joint defect rate is low and exquisite appearance.

### 【SMT贴片加工的优点】

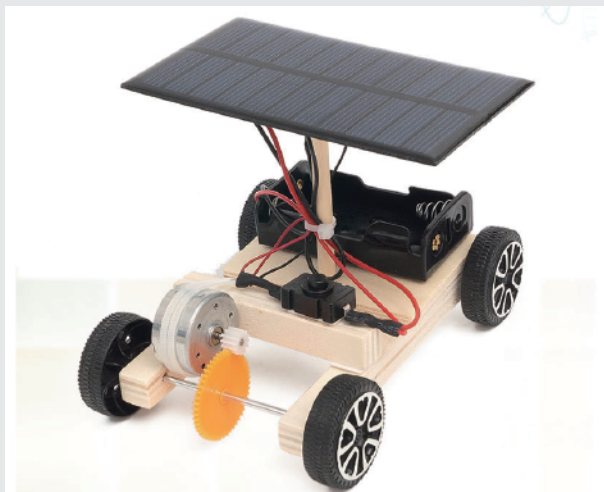
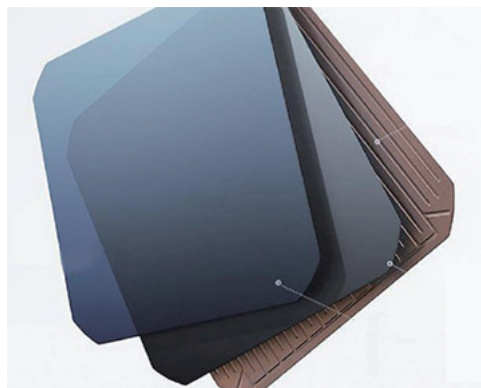
组装密度高、体积更小、重量更轻。可靠性高、抗震能力强、焊点缺陷率低、外观精美。

### [ Sufficient energy ]

Designed and made by SOLARParts with SP high-efficiency solar cells. High conversion rate, compact and stylish size.

#### 【能量充足】

由 SOLARParts 采用SP高效太阳能电池设计和制造。高转换率，尺寸小巧时尚。



### [Experience the fun of DIY]

Build your own powered models, solar toys, solar lights, solar displays, charging small DC batteries. It also can be used for teaching purpose. Fit for preliminary study experiment with solar energy. It's perfect devices for science project.

#### 【体验DIY的乐趣】

搭建自己的动力模型，太阳能玩具，太阳能灯，太阳能显示器，给小型直流电池充电。它也可以用于教学目的。适合太阳能的初步研究实验。它是科学项目的完美设备。

## ☆ Application 应用

DIY solar products application: Solar Lawn Lamp, Solar Wall Lamp, Solar Art Craft, Solar Toy, Solar Radio, Solar Aluminum Flashlight, Solar Powerbank Charger, Solar Mini Water Pump, etc. When the voltage of your solar panel doesn't satisfy your storage battery requirements, you can take two or more same solar panels together in series. Such as, two 6v solar panels connect together in series, so their voltage is 12V. When the voltage of the solar panel satisfies your storage battery. In order to speed up the rate of charge, you can take two or more same solar panels together parallel connection.

DIY 太阳能产品应用：太阳能草坪灯、太阳能壁灯、太阳能工艺品、太阳能玩具、太阳能收音机、太阳能铝手电筒、太阳能移动电源充电器、太阳能迷你水泵等。当您的太阳能电池板的电压不满足您的蓄电池要求时，您可以将两个或多个相同的太阳能电池板串联在一起。如两块6V太阳能电池板串联在一起，其电压为12V。当太阳能电池板的电压满足您的蓄电池时。为了加快充电速度，可以将两块或多块相同的太阳能电池板并联在一起。



## Sunpower SMT series solar panels

### Sunpower贴片组件

#### Electrical parameter | STC 电性能参数 (0.1W~0.6W)

Rated Power 功率输出	Pmax(W)	0.1	0.3	0.5	0.6
Model No. 产品型号	/	PG-SMT-0.1	PG-SMT-0.3	PG-SMT-0.5	PG-SMT-0.6
Cell type 电池片类型	/	Sunpower	Sunpower	Sunpower	Sunpower
Operating Voltage 最大功率点的工作电压	Vmp(V)	2.2	4.95	5.5	5.5
Operating Current 最大功率点的工作电流	Imp(A)	0.046	0.061	0.091	0.11
Open Circuit Voltage 开路电压	Voc(V)	2.64	5.94	6.6	6.6
Short Circuit Current 短路电流	Isc(A)	0.05	0.067	0.1	0.12
Performance Tolerance 功率公差	(%)	±5%	±5%	±5%	±5%
Boundary dimension 外形尺寸	mm	30*25*2.5	62*35*2.5	66*46*2.5	66*55*2.5

#### Electrical parameter | STC 电性能参数 (0.8W~1.5W)

Rated Power 功率输出	Pmax(W)	0.8	1.0	1.2	1.5
Model No. 产品型号	/	PG-SMT-0.8	PG-SMT-1.0	PG-SMT-1.2	PG-SMT-1.5
Cell type 电池片类型	/	Sunpower	Sunpower	Sunpower	Sunpower
Operating Voltage 最大功率点的工作电压	Vmp(V)	5.5	5.5	4.95	5.5
Operating Current 最大功率点的工作电流	Imp(A)	0.146	0.182	0.243	0.273
Open Circuit Voltage 开路电压	Voc(V)	6.6	6.6	5.94	6.6
Short Circuit Current 短路电流	Isc(A)	0.16	0.2	0.267	0.3
Performance Tolerance 功率公差	(%)	±5%	±5%	±5%	±5%
Boundary dimension 外形尺寸	mm	90*52*2.5	96*60*2.5	88*80*2.5	130*70*2.5

\*以上为我们公司的一部分太阳能板的规格及型号。我们可以根据客户要求设计及定制。

\*It's a part of the specifications and models of the solar panels. We can design and provide products according to customer's demand.

## Structural performance 结构性能

Solar cell 太阳能电池片	Sunpower
Surface 面板	PET/TPT/ETFE/Glass
Backsheet 背板	fiberglass board 玻纤板
EVA(EVA)	Through the Rhine test 通过莱茵测试
Output Interface 输出接口	USB /DC/MC4

## Temperature characteristics 温度特性

Standard Test Conditions 电池标称工作温度 (NOTC)	45±2°C
Short Circuit Current Temp 温度系数 (Sic)	+0.050%/°C
Open Circuit Voltage Temp 温度系数 (Vic)	-0.30%/°C
Max. Power Temp 温度系数 (Plax)	-0.39%/°C

## Limit parameter 极限参数

Operating Temperature 工作温度	-40~+85°C
Max.System Voltage 最大系统电压	1000V DC

\* 标准测试条件: (大气质量 AM1.5, 辐照度 1000W/m<sup>2</sup>, 电池温度25°C) 下的测量值。

\* Standard test conditions measured values (irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, atmospheric mass AM1.5).

### Complete quality management system and product certification

完整的质量管理体系与产品认证

ISO 9001:2015: ISO 质量管理体系

ISO 14001: 2015: ISO 环境管理体系

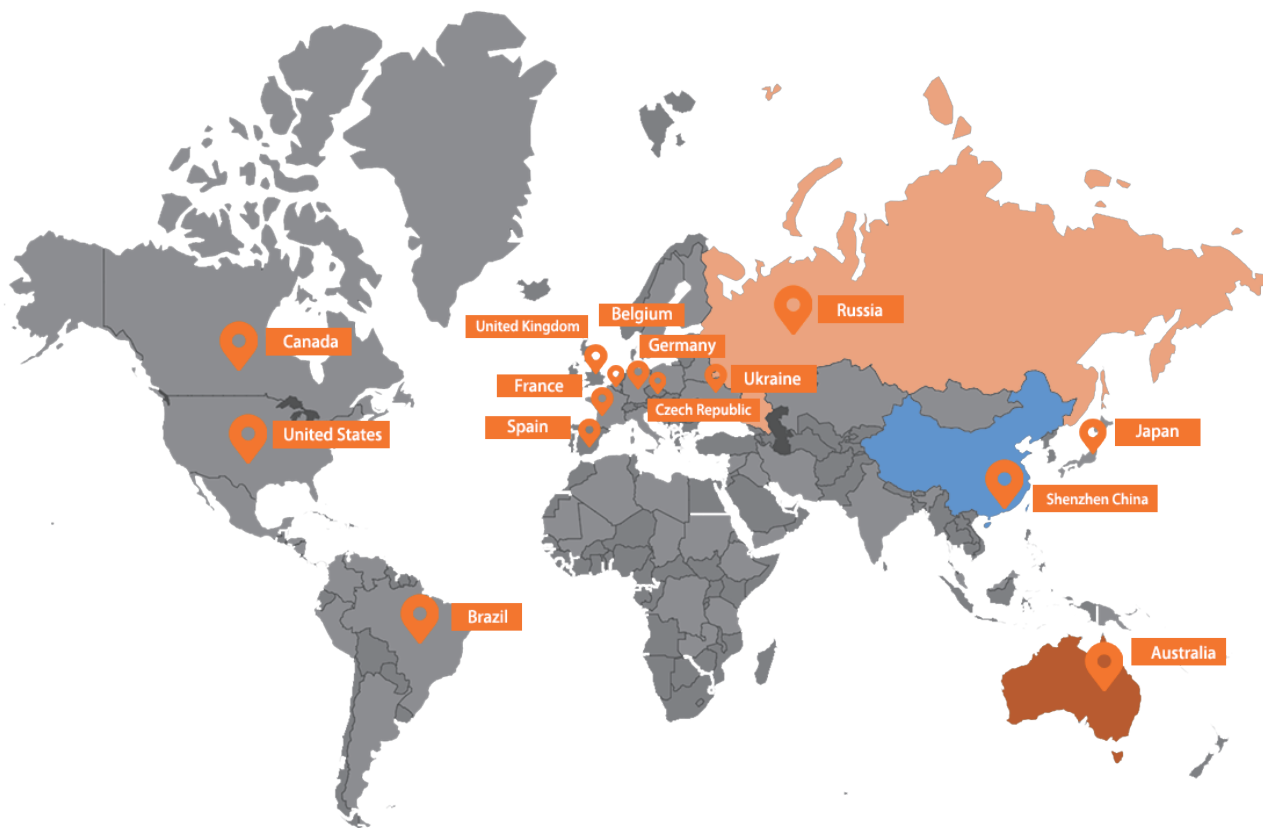
RoHS EBO1909058-V150 (EU)2015/ 863 限值要求

IEC 61215 2nd Edition (2005)

EMC 2004/108/EC BCTC-141212557



## Global Markets Distribution



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