



苏州自徕新能源科技有限公司

Suzhou Solargy New Energy Technology Co., Ltd



INTRODUCTION TO THE COMPANY

企业简介

苏州自徠新能源科技有限公司是一家集研发、生产、销售于一体的高科技企业，坐落于风景秀丽、经济发达的中国苏州。公司的核心业务聚焦于将半柔性光伏板与户外产品进行创新结合。我们通过先进的工艺和精心的设计理念，将半柔性光伏板巧妙地集成于各种户外产品之中，使其在满足户外使用功能的同时，能够高效地将太阳能转化为电能，为户外设备提供持续稳定的电力支持，实现能源的自给自足，减少对传统能源的依赖，降低碳排放，推动户外生活的绿色可持续发展。

Suzhou Solargy New Energy Technology Co., Ltd. is a high-tech enterprise integrating research and development, production, and sales, located in the picturesque and economically developed city of Suzhou, China. Our core business focuses on innovatively combining semi-flexible photovoltaic panels with outdoor products. Through advanced technological processes and meticulous design concepts, we ingeniously integrate semi-flexible photovoltaic panels into a variety of outdoor products. This allows them to meet the functional requirements of outdoor use while efficiently converting solar energy into electrical energy, providing continuous and stable power support for outdoor devices, achieving self-sufficiency in energy, reducing dependence on traditional energy sources, lowering carbon emissions, and promoting the green and sustainable development of outdoor life.

TECHNICAL STRENGTH AND INNOVATION ACHIEVEMENTS

技术实力与创新成果

公司汇聚了一批高素质的专业人才，其中包括两名博士及多位资深工程师。我们专注于为人们打造更舒适、更便捷、更环保的户外生活体验，以创新科技重新定义户外产品。目前，我们已经拥有了多个全球性的专利技术，这些专利涵盖了户外产品的光伏充电、风扇集成、伞体结构等多个方面，为产品的性能和质量提供了坚实的保障。

Our company has gathered a team of highly qualified professionals, including two Ph.D. holders and several senior engineers. We are committed to creating a more comfortable, convenient, and environmentally friendly outdoor life experience for people, redefining outdoor products with innovative technology. At present, we have obtained multiple global patents, covering various aspects such as photovoltaic charging, fan integration, and umbrella structure in outdoor products, providing solid guarantees for the performance and quality of our products.

公司拥有电子产品的电路、软件、结构的全套自主设计能力，所擅长的领域包括但不限于光伏逆变器、电机控制等方向，并拥有自主为户外产品设计外观与功能的专业工程师。这是我们与一般的户外产品企业非常大的不同点。

The company has a full set of independent design capabilities for the circuits, software, and structures of electronic products. Its areas of expertise include, but are not limited to, photovoltaic inverters and motor control. Moreover, we have professional engineers who are capable of independently designing the appearance and functionality of outdoor products. This is a significant distinction between us and ordinary outdoor product companies.



第三方检测报告



国际与国内专利



创新人才企业



省级创新查新

SEMI-FLEXIBLE PHOTOVOLTAIC PACKAGING TECHNOLOGY

半柔性光伏封装技术

公司所研发出的半柔性光伏片封装技术，半柔性光伏片具有轻柔可折叠、防水防尘等特点，非常适合应用在户外产品上。

The semi-flexible photovoltaic module encapsulation technology developed by our company produces modules that are lightweight, foldable, waterproof, and dustproof. These characteristics make them particularly suitable for application in outdoor products.



半柔性光伏板封装的主要材料包括EVA、PET、单晶电池片、透明TPT。EVA起到密封作用，用于连接组件与铝合金的缝隙，而PET则用于制作面板的透明复合膜，提供良好的透光性和耐用性。The primary materials used in the encapsulation of semi-flexible photovoltaic modules include EVA (ethylene-vinyl acetate), PET (polyethylene terephthalate), monocrystalline silicon cells, transparent TPT (Tedlar-Polyester-Tedlar), and aluminum substrates. EVA serves as a sealant, bridging the gaps between the components and the aluminum alloy frame. PET is used to create a transparent composite film for the panel, providing excellent light transmission and durability.



我们将传统光伏板通过激光切割分为小块后，使用柔性材料重新封装后。封装后可增强光伏板的柔韧性，达到在使用时可以对其进行一定程度的弯折的效果。

By using laser cutting technology, we divide traditional photovoltaic modules into smaller sections and then re-encapsulate them with flexible materials. This process enhances the flexibility of the photovoltaic modules, allowing them to be bent to a certain degree during use.



PRODUCTION AND QUALITY

生产与质量

公司拥有先进的生产设施和严格的管控体系，从原材料采购到成品出库，全程把控质量。我们采用优质原材料，经过精密加工、严格组装和功能测试，确保每件产品性能卓越、安全可靠。通过完善的质量管理体系和持续改进措施，我们致力于为客户提供高品质的绿色户外产品，满足市场对环保、节能的需求。

The company is equipped with advanced production facilities and a stringent control system, ensuring quality control throughout the entire process from raw material procurement to finished product dispatch. We use high-quality raw materials, which undergo precision processing, strict assembly, and functional testing to ensure that each product is of superior performance and reliable safety. Through a comprehensive quality management system and continuous improvement measures, we are committed to providing customers with high-quality green outdoor products that meet the market's demand for environmental protection and energy efficiency.



组装车间
Assembly Area



检验与测试实验室
Inspection and testing Lab



原材料仓库
Raw material warehouse



成品仓库
Finished goods warehouse

PRODUCT INTRODUCTION

产品介绍

ZL01不仅仅是一把遮阳伞，更是户外生活中的智能伴侣。这款遮阳伞采用了先进的半柔性光伏充电技术，能够将太阳能高效转化为电能，为伞上的各种电子设备提供源源不断的动力。即使身处户外，您都可以放心地使用手机、平板等设备，无需担心电量不足的问题，真正实现了户外用电的自由。此外，遮阳伞还集成了户外伞集成风扇技术与蓝牙音响技术。在炎热的天气里，轻按按钮，伞上的风扇便会徐徐转动，为您带来清凉的微风的同时还能享受愉悦的音乐，让您在遮阳的同时，也能享受到舒适的户外环境。



The ZL01 is not just a sunshade umbrella; it is a smart companion for outdoor living. This umbrella employs advanced semi-flexible photovoltaic charging technology, which can efficiently convert solar energy into electricity to continuously power various electronic devices mounted on the umbrella. Even when you are outdoors, you can use your mobile phone, tablet, and other devices with confidence, without worrying about running out of power, truly achieving freedom in outdoor electricity usage. In addition, the umbrella integrates outdoor umbrella fan technology and Bluetooth speaker technology. On hot days, with a simple press of a button, the fan on the umbrella will start to rotate gently, providing you with a cool breeze while also allowing you to enjoy pleasant music. This ensures that while you are shaded from the sun, you can also enjoy a comfortable outdoor environment.



PRODUCT INTRODUCTION

产品介绍



ZL01

罗马伞

ROMA SUNSHADE



太阳能组件
半柔性光伏技术
折叠更自如

发电功率
40W MAX

四向布局
单面光照输入仍可发电

防水防尘
可通过IP67测试



外接适配器供电
IP67防水等级

Can Be Powered By An External Adapter
IP67 Waterproof Rating



● 三种电能供应方式:

Three types of power supply methods:

- 光伏电池片发电 semi-flexible photovoltaic cells
- 可换电式电池盒供电 replaceable battery pack
- 外接电源适配器直接供电 external power adapter

● 丰富的电子功能:

Diverse electronic features:

- 电子风扇 Electronic fan
- 夜景氛围灯 Night scene ambient lighting
- 蓝牙音响 Bluetooth speaker
- USB拓展输出口 USB expansion output port

PRODUCT INTRODUCTION

产品介绍



把凉爽的风
写进设计基因

Write the cool wind
into the design genes



风扇

360° 摇头, 45° 转角

即使距离1.5米, 仍有凉风



伞骨氛围灯

「一键」切换社交主场

藏在伞骨里的柔光
拉满聚会浪漫感, 点亮独处安心感



蓝牙音箱

双效合一, 让音浪与凉风同频

音频输出率5W, THD<10%
精准匹配好心情



● 多功能电子风扇 Multifunctional Electronic Fan

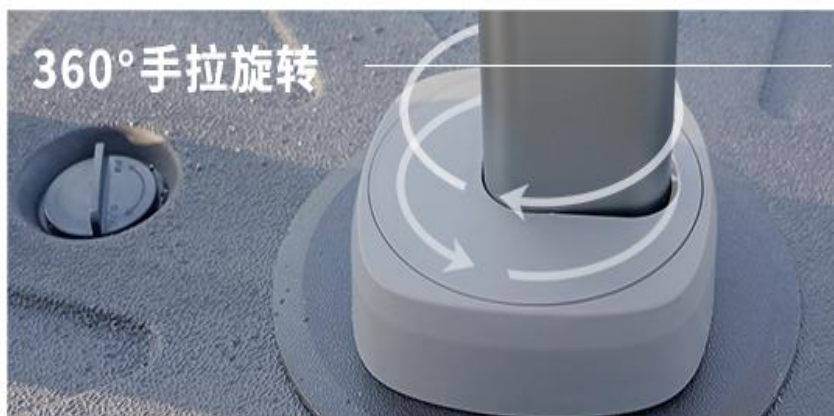
- 360°自动摇头, 45°出风角度可调
360° automatic swivel, with adjustable airflow angle up to 45°
- 大风力: 1.5米距离仍有舒适凉风
High airflow: Comfortable breeze at a distance of 1.5 meters
- 内置集成式蓝牙音响
Built-in integrated Bluetooth speaker
- 风扇中央LED, 与氛围灯配合氛围拉满
Fan Central LED, perfectly coordinated with ambient lighting

● 多种氛围灯选择 Multiple ambient light options

- 风扇LED中央照明灯
Central LED illumination on the fan
- 全伞覆盖氛围灯
Full-canopy ambient lighting
- 亮度可多档调节
Multi-level adjustable brightness
- 长时间续航
Long-lasting battery life

PRODUCT INTRODUCTION

产品介绍



- **时尚典雅，质量扎实**
Elegant and stylish design, with solid build quality

- **全伞铝制金属**
Entire canopy made of aluminum metal
- **6级色牢度防雨色织布**
6-level colorfastness for rain-resistant color-woven fabric

- **整伞360°旋转功能**
360° rotation function for the entire umbrella
- **PA&ABS耐用塑料件**
Durable PA & ABS plastic components



苏州自徕新能源科技有限公司

Suzhou Solargy New Energy Technology Co., Ltd



www.solargy123.com



623887792@qq.com



苏州市巴城镇迎宾西路2001号

No.2001 Yingbin West Road,
Bacheng Town, Suzhou City