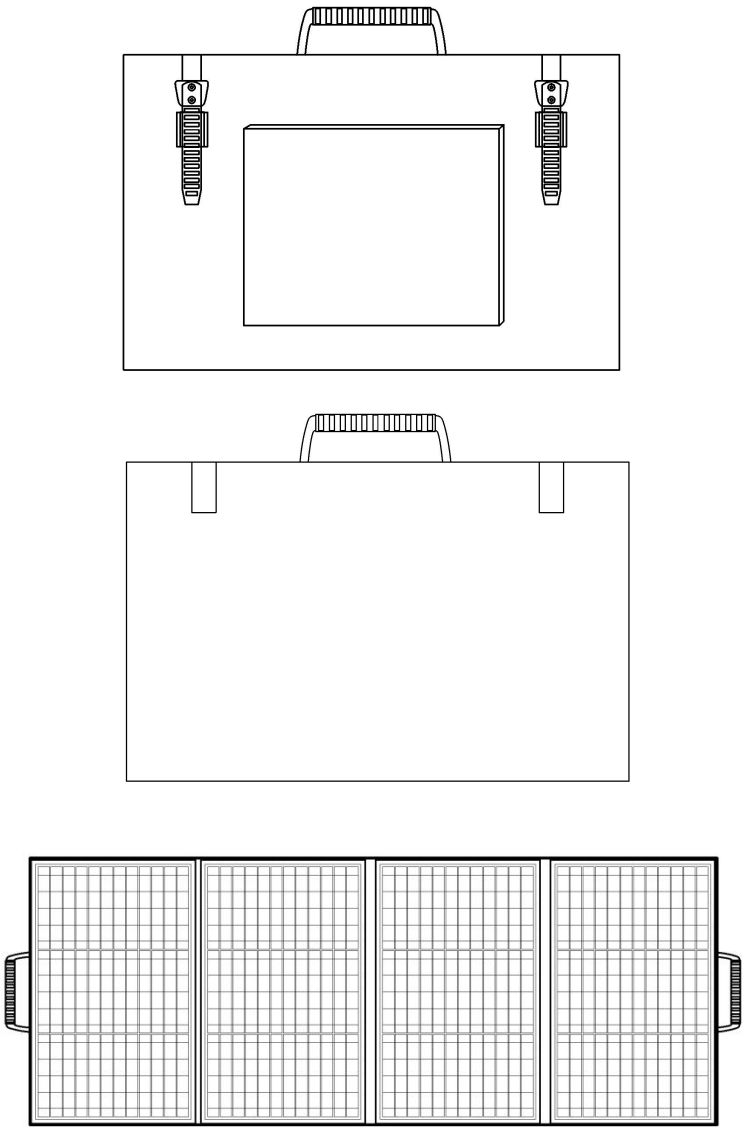


折叠太阳能包使用说明书



产品特点

本产品适用于光伏发电系统，为各种储能电源在户外阳光下充电之用。为了提高太阳能板的便携性，抗跌落性能，方便维护和安装接入而设计。

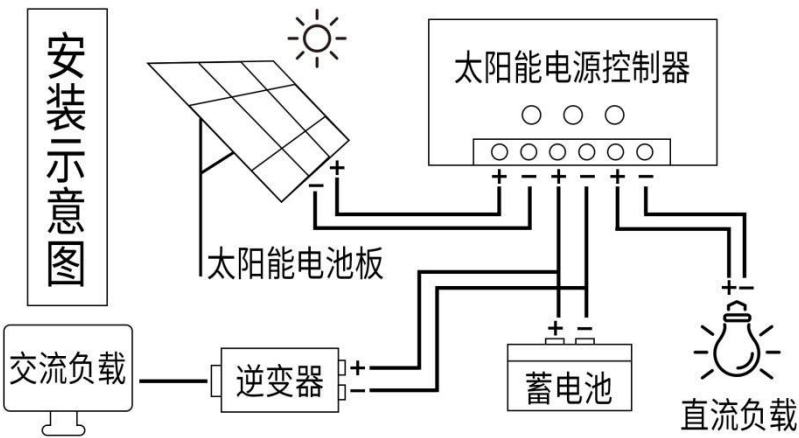
- ▲太阳能折叠板产品轻便，外形紧凑合理，适合户外便携使用。
- ▲太阳能板采用 FR-4 玻璃纤维板基材+磨砂 PET 层压的封装工艺，产品寿命长达 10 年。
- ▲本系列太阳能折叠包适合为额定电压 DC12-14V 储能电池充电只用（需接充电保护控制器）。
- ▲采用高效 A 级单晶硅电池片生产，电池片光电效率 20%以上。
- ▲产品具备的一定的抗跌落撞击性能（可承受的跌落高度 1 米以内，太阳能正面不可撞击于尖锐物体上，以防破坏内部的太阳能电池片）。
- ▲适配有 1.5 米外接线缆和大电流安德森端子输出接口（30A）。
- ▲采用防水布料和工艺，如遇雨水淋不影响正常使用（注意不可被海水等导电性/腐蚀性液体接触，会导致内部短路造成不能正常发电，如有接触用清水冲洗干净晾干即可）。
- ▲可根据用户需要进行定制修改（颜色/功率/电压/外形尺寸等）。

性能参数

型号	SRFM-100
峰值功率	100W
开路电压	21.6V
峰值电压	18V
峰值电流	5.55A
短路电流	6.06A
电池片光电效率	20%
折叠太阳能包内部电器连接方式	4 片 25W/18V 太阳能板并联
尺寸/重量	折叠尺寸：330*505*40mm 展开尺寸：1400*505*10mm 重量：4kg
太阳能电池片	高效 A 级单晶硅电池片
太阳能板表面封装	PET（磨砂）
太阳能板底板材质	FR-4 玻璃纤维板
连接线/接头型号	2*1.0mm² /长度 1.5 米安德森接头（30A）
导线引出线拉力限值	150N
应用等级	A 级
额定工作温度	48±2℃
工作温度范围	-40℃-85℃
电流温度系数	0.1%/℃
电压温度系数	-0.37%/℃
功率温度系数	-0.45%/℃
STC 标准测试条件	辐射值：1000W/m² 电池片温度：25℃ 大气质量 AM1.5

使用说明

1. 太阳能连接电器原理示意图

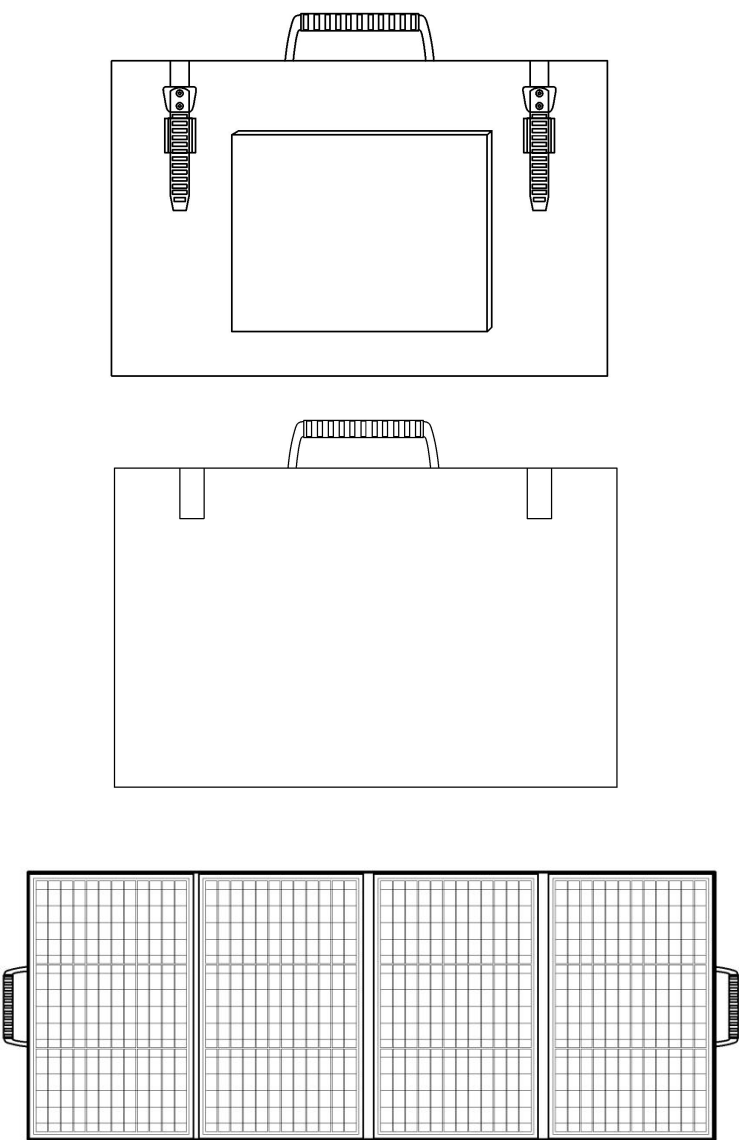


●接控制器时，一定要先接蓄电池，再接光伏板。

2. 太阳能折叠包使用注意事项

- ▲太阳能板应放置在阳光直射下，并调整好适当的角度以接受光照取得最大发电效果。
- ▲本产品适合为额定电压 DC12V-14V 的蓄电池充电之用，但不可用太阳能板直接给蓄电池充电，必须加装太阳能控制器，以保护蓄电池过充电或者防止接反后对太阳能板/蓄电池和人员造成不可控的损伤，如果设备是储能一体机是可按照储能一体机厂家要求接入对应的太阳能充电口。
- ▲如遇水淋不影响正常使用，（注意不可被海水等导电性/腐蚀性液体接触，会导致内部短路造成不能正常发电，如有接触用清水冲洗干净晾干即可）。
- ▲接入太阳能控制器/储能一体机时注意接口正负极应正确接入
- ▲接入太阳能控制/蓄电池/储能一体机前应详细核对其产品规格/电流/电压要求，不可超出其限值，避免造成不可控后果。

FOLDING SOLAR BAG USER MANUAL



SHENZHEN WITROY PV TECHNOLOGY CO.,LTD

Product features

This product is suitable for solar system, it can charge the energy storage system in the outdoor sunlight. It is designed to improve the portability of solar panels and facilitate maintenance and installation access.

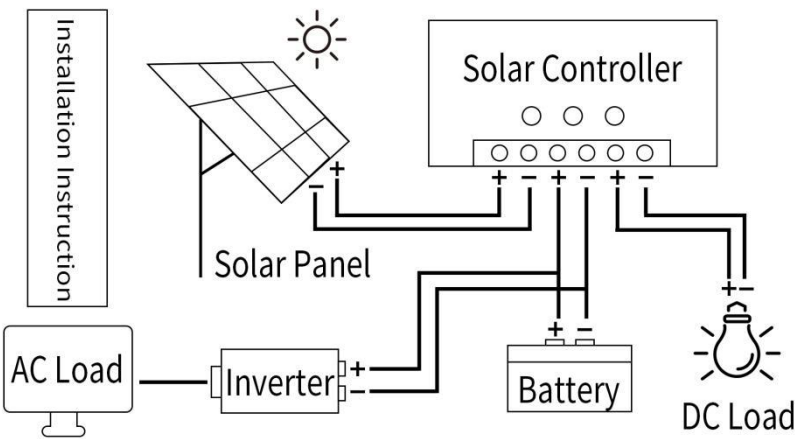
- ▲The folding solar bag product is lighter, compact and reasonable, suitable for outdoor portable use.
- ▲The folding solar panel adopts the production process of FR-4 glass fiber board substrate + frosted PET lamination, and the product life is as long as 10 years.
- ▲The Folding solar bag is suitable for charging energy storage batteries with rated voltage DC12-14V (requires connection to the charging protection controller)。
- ▲It is produced with high-efficiency A-level mono-crystalline silicon cells, and the efficiency of the cells is more than 20%.
- ▲The product has a certain degree of anti-drop impact performance (withstand a drop height of less than 1 meter, the front of the solar panel should not be impacted on sharp objects to prevent damage to the internal solar cells).
- ▲Equipped with 1.5 meters external cable and high current Anderson terminal output interface (30A)。
- ▲Use waterproof fabric and technology, if it is exposed to rain, it will not affect normal use (note that it should not be contacted by conductive/corrosive liquids such as sea water, which will cause internal short-circuits and cannot generate power normally. If there is contact, rinse with water and dry)。
- ▲Can be customized and modified according to user needs (color/power/voltage/dimensions, etc.)

Specification

Model	SRFM-100
Peak power(W)	100W
Open circuit voltage	21.6V
Max.voltage	18V
Max.current	5.55A
Short circuit current	6.06A
Solar cell efficiency	20%
Solar panel connections	25W/18V*4pcs in parallel connection
Size/Weight	Folded size:330*505*40mm Unfold size:1400*505*10mm Weight :4kg
Solar cell	A grade
Solar panel front cover material	PET (Frosted surface)
Solar panel back board	FR-4 Fiberglass board
Cable/Connector	2*1.0mm ² /1.5M Anderson connector (30A)
Tension limit	150N
Grade	A
NOCT	48±2℃
Operating temperature	-40℃-85℃
Coefficient current TK	0.1%/℃
Coefficient voltage TK	-0.37%/℃
Coefficient Power TK	-0.45%/℃
STC	Irradiance: 1000W/m ² Cell temperature: 25℃ AMAM1.5

Instructions for use

1.Schematic diagram of solar panel connection principle



- When connecting the controller, be sure to connect the battery first, then the solar panel。

2.Precautions for the use of folding solar bags

- ▲ The solar panel should be placed under direct sunlight and adjusted to an appropriate angle to obtain the maximum power generation efficiency。
- ▲This product is suitable for charging batteries with a rated voltage of DC12V-14V. it cannot directly charge the battery. solar controller must be installed to protect the battery from overcharging or prevent uncontrollable damage to the solar panel/battery and personnel after reverse connection.
- ▲When connecting the solar generator, pay attention to the correct connection of the positive and negative poles of the interface。
- ▲Before connecting the solar control/battery/energy storage integrated machine, the product specifications/current/voltage requirements should be checked in detail, and the limits should not be exceeded to avoid uncontrollable consequences.

Websites: www.witroy.com

Add: Floor 3, Building 3, Huike Industrial Park,Shiyan Street, Baoan District, Shenzhen,China