

深圳市贝尔太阳能技术有限公司
Shenzhen Bluetech Solar Power Co., Ltd

产品规格说明书

Product specification

产品名称：100W/20V 防水折叠太阳能包

Name: 100W/20V Waterproof Folding Solar Panel

产品编号：BL100M-12-C

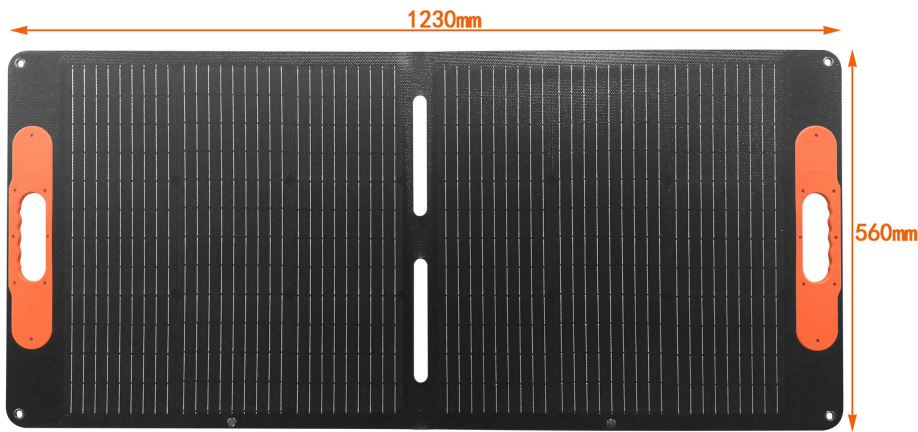
Item No: BL100M-12-C

折叠太阳能包产品使用说明书

Folding solar panel product instruction manual

产品名称：100W/20V 防水折叠太阳能包-一体式

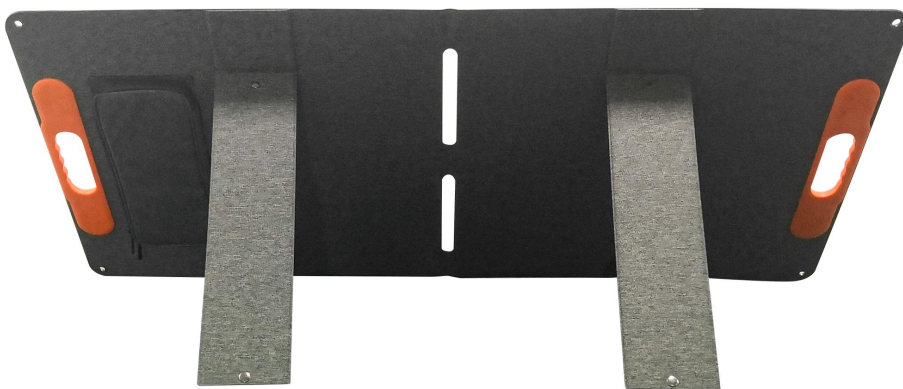
100W/20V Waterproof Folding Solar Panel (2 folding)



展开正面视图 Expand front view



折叠后正面视图 1 Front view after folding 1
(选配 USB 出线盒效果 Optional USB outlet box)



展开背面视图 Expand back view



折叠后背面视图 1 back view after folding 1



折叠后正面视图 2 Front view after folding 2

一、(选配 DC5521 输出口效果 Optional DC5521 outlet box)



折叠后正面视图 3 Front view after folding 3

(选配线包效果 optional Wire pack)

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产品特点:

Product features:

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。

The product is suitable for photovoltaic power generation systems, which are used to charge a variety of energy storage sources in outdoor sunlight. To improve the portability of solar panels, resistance to dropping, easy maintenance and easy installation are designed.

➤ 太阳能折叠包产品轻便,外形紧凑合理,一体式磁吸提手/磁吸支架开合方便,标配支撑架,适合户外携带使用。

Solar portable folding panels, structure appearance compact and reasonable, one-piece magnetic suction type handle/magnetic stent (easy to open and close), with a brace, suitable for outdoor use.

➤ 太阳能板采用FR-4玻璃纤维板基材+EVA+ETFE保护膜层压的封装工艺,产品寿命长达10年。

Solar panels with FR-4 fiberglass plate base material + EVA + ETFE protective film laminated packaging technology. product life span of 10 years.

➤ 采用高效A级单晶硅电池片生产,电池片光电效率22%以上。

High efficient - grade A Mono-crystal silicon cells, the cell photoelectric efficiency exceeds 22 %.

➤ 产品防水性能和耐脏性能强,脏污后易清洗。

Product water-resistant and stain resistance are strong and easy to clean after dirt.

➤ 本系列太阳能折叠包适合为额定电压DC12-14V储能电池充电之用(需另外接充电保护控制器)

This series solar folding solar panels are suitable for Charging the energy storage battery (rated voltage DC12-14 v) charging (need additional charge controller)

➤ 产品具备一定的抗跌落撞击性能(可承受的跌落高度1米以内,太阳能板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)。

The product has anti-fall impact, (The height of the fall is less than 1 meter ,The front of the solar panel should not hit sharp objects, in case of the solar cell is damaged

➤ 标配5521DC输出口,输出线,输出接口可定制。

Standard 5521 DC output, output line, output interface can be customized.

➤ 采用防水布料和工艺,如遇雨水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,会可能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)

Waterproof nylon cloth and technology, rain water does not affect the normal use, (Do not be exposed to conductive/corrosive liquids such as seawater, which may lead to internal short circuit, resulting in the failure of normal power generation. If contact, rinse with clean water and dry)

➤ 可根据用户需要进行定制修改(颜色/功率/电压/外形尺寸等)

Can be customized according to user's requirements(color/power/voltage/size, etc.)

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二、性能参数: Specifications

Model 型号	BL100M-12-C
Peak power Pm(W) 峰值功率	100W
Open circuit voltage Voc(V) 开路电压	24.0V
Max. power voltage Vmp(V) 峰值电压	20.0V
Max. power current Imp(A) 峰值电流	5.00A
Short circuit current Isc(A) 短路电流	5.25A
Solar cells Efficiency 电池片光电效率	22.0%
Solar panel model&number 太阳能板数量	50W*2pcs
Folding size 折叠后尺寸	615*560*35mm
Deployment size 展开后尺寸	1230*560*25mm
参考净重	4.45kg
solar cell 太阳能电池片	高效 A 级单晶硅电池片 Grade A monocrystalline silicon cell
Solar panel Front cover(material) 太阳能板表面封装	<input checked="" type="checkbox"/> 透明 ETFE Transparent ETFE <input type="checkbox"/> 电池片表面透明复合材料加强保护 (可选) Transparent composite reinforced (option)
Solar panel backboard(material) 太阳能板底板加强材质	<input checked="" type="checkbox"/> 玻璃纤维板 FR-4 fiberglass board
Output port 输出端口/可选配件型号	1: <input checked="" type="checkbox"/> 直接出线方式, DC5521 公头+30CM 线材 (配套 2 米延长线) Direct outlet:DC5521 Male +30CM Cables (2m extension cord) 2: <input type="checkbox"/> 直接出线方式, 光伏专用接头+30CM 线材 (配套 2 米延长线) Direct outlet: MC4+30CM Cables 2m extension cord) 3: <input type="checkbox"/> 配 USB 出线盒方式: USB 快充*1+Type-C 45W*1 + DC5521 母座*1 (配套 2 米 DC5521 公头-DC5521 公头延长线) 可选/定制 USB:QC3.0*1+Type-C 45W*1+DC5521 Female*1(2 m DC5521 Male and extension cord (Cuctomized/option)
solar folding handbag material 太阳能包布料 (外表面)	<input checked="" type="checkbox"/> 灰色(防水型) 颜色/图案可定制 可丝印 Gray (water repellent) color/pattern can be customized to screen printing
NOCT/Operating temperature limits 额定工作温度/范围	Rated operating temperature: 48±2°C / Temperature Range: -40°C- +85°C
Storage temperature limits 储存温度范围	-10°C- +30°C
Waterproof grade 防水等级	IP65
功率/电压/电流温度系数	-0.35%/°C ; -0.272%/°C; +0.044%/°C
Life/ Warranty 质保寿命/质保	寿命 Lifetime≥10Year/ 质保 Warranty1Year
STC 标准测试条件	辐射 Irradiance:1000W/m2, 温度 Temperature:25°C, AM:1.5
其他 other	一体式磁吸提手 One piece magnetic suction handle <input checked="" type="checkbox"/> 橙色 Orange <input type="checkbox"/> 绿色 Green 可选 option

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包装尺寸/重量参考数据:

Package size/weight

单片纸箱外尺寸: 585*60*670mm 毛重: 5.0KG/箱

External dimensions of single carton:585*60*670mm.

G. W:5.0KG/CTN

外箱外尺寸: 605*260*700 mm (4片/大箱) 毛重: 22KG/箱

Outer box outer size:605*260*700 mm(4 pcs/ctn) G. W:22kg/ctn

装柜数量: 888套/20尺柜; 1824套/40尺柜;

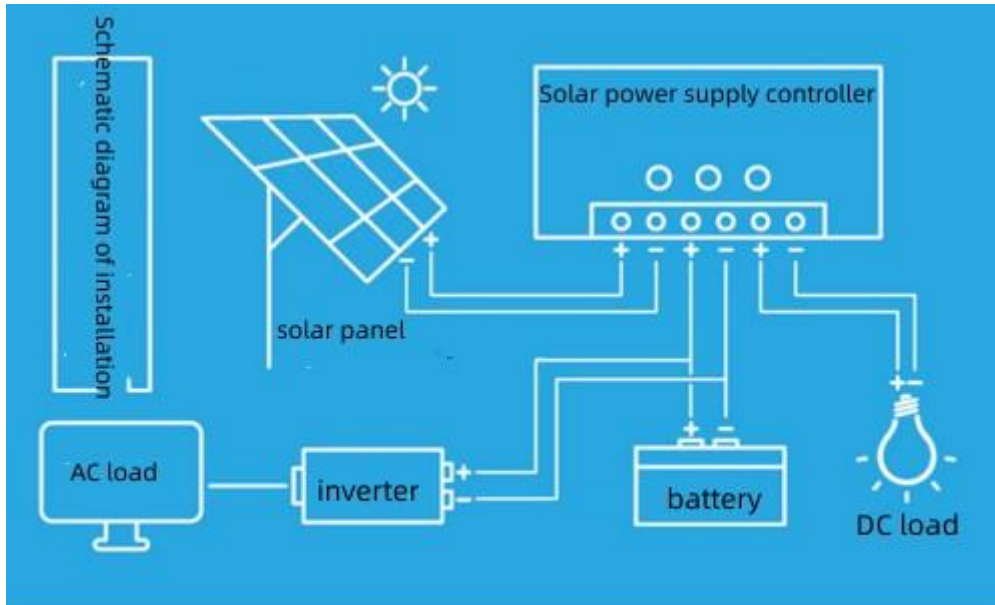
CONTAINER QTY :888 Sets/20 Foots Cabinet: 1824Sets/40 Fools Cabinet

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三、使用说明 Instructions

3.1: 太阳能连接电气原理示意图 Schematic diagram of electric principle of solar connection



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

3.2: 折叠太阳能包使用注意事项 Precautions for use

1: 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。

Solar panels should be placed in direct sunlight and angled to receive sunlight for maximum power generation.

2: 本产品适合为额定电压 DC 12-14V 的移动储能电源设备（需内置太阳能充电保护功能）或者蓄电池充电之用，但不可用太阳能板的输出电极直接给蓄电池充电，必须加装太阳能充电控制器，以保护蓄电池过充电或者防止接反电极后对太阳能板/蓄电池和人员造成不可控的损伤。如设备是储能一体机时可按照储能一体机厂家要求接入对应的太阳能充电接口。

This product is suitable for mobile energy storage power equipment with rated voltage DC 12-14V (with built-in solar charging protection function) or battery charging. It can also charge higher voltage levels of energy storage cells after multiple in-series charges. However, the output electrodes of the solar panel cannot be used to charge the battery directly, so a solar charging controller must be installed. To protect the battery from overcharging or to prevent uncontrolled damage to the solar panel/battery and the person after connecting the reverse electrode. If the device is integrated with an energy storage, it is connected to the corresponding solar charging port as required by the manufacturer of the energy storage integrated device.

3: 如遇雨水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，会导致接线盒内部短路造成不能正常发电，如有接触及时用清水冲洗干净晾干即可）

If it encounters rain water, it will not affect the normal use. Do not contact with seawater and other conductive/corrosive liquid, which may lead to internal short circuit, resulting in the failure of normal power generation. If contact, rinse with clean water and dry)

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4: 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。

When connecting the solar controller/energy storage integrated device, Ensure that the positive and negative terminals of the interface are connected correctly.

5: 接入太阳能控制器/蓄电池/储能一体机前应详细核对其产品规格/功率/电流/电压要求, 不可超出其限值, 以防损坏设备, 避免造成不可控后果。

Before connecting the solar controller/battery/energy storage appliance, check the product specifications, power, current, and voltage requirements. Do not exceed the limits to prevent device damage and uncontrollable consequences.

6: 本设备在光照下电压未超过人体安全电压, 但是也应避免直接接触或者短路设备电极, 避免触电或者造成安全隐患! 如太阳能板破损应停止使用, 防止漏电伤害!

The voltage of the equipment under light does not exceed the safety voltage of human body, but also avoid direct contact with or short circuit equipment electrode, avoid electric shock or cause safety risks! If the solar panel is damaged, stop using it to prevent leakage damage!

7: 使用中应轻拿轻放, 严禁摔打, 重压, 撞击, 否则可能严重损坏太阳能电池片!

Use should be handled lightly and be strictly prohibited from beating, heavy pressure, impact, etc. that could otherwise severely damage the solar cell !

产品合格证 Product certificate	
产品名称 Name	100W/20V 折叠太阳能包 FOLDING SOLAR PANEL CHARGE
规格 Specification	
数量 Qt	1 套 (1pcs)
出厂日期 date	
检验员编号 Inspector number	01
本产品经出厂检测合格, 准予出厂! This product has passed the factory inspection and is approved to leave the factory!	