

产品规格书 Product specification

产品名称: 太阳能折叠包 Solar folding bag

产品型号: TB100W_SP_20V

客户型号: NA

版本号: A

编制 / 日期: 周海涛/2022-4-26

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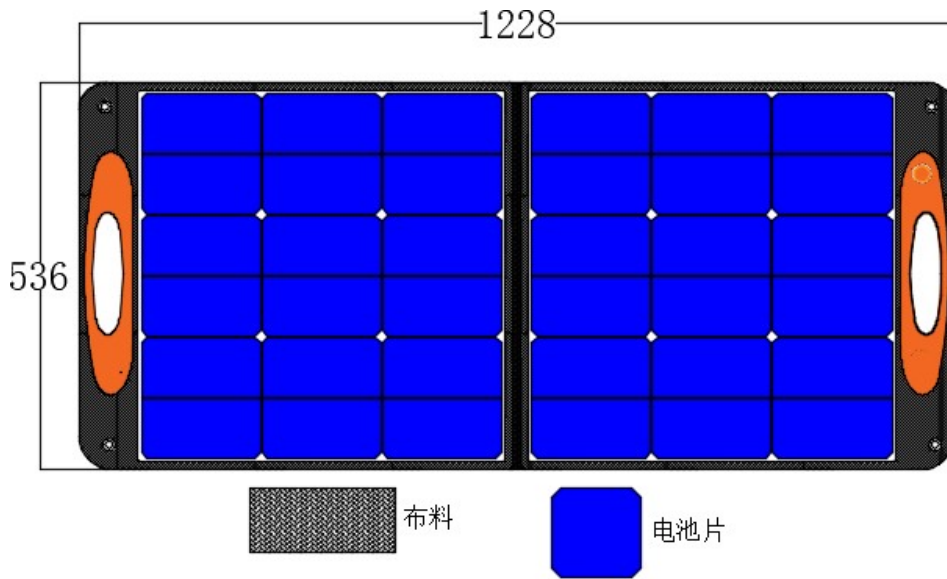
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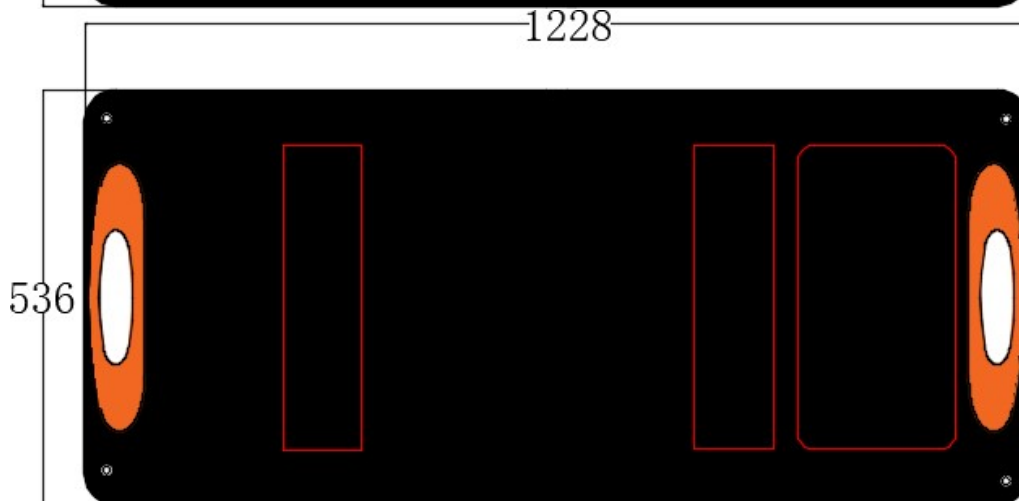
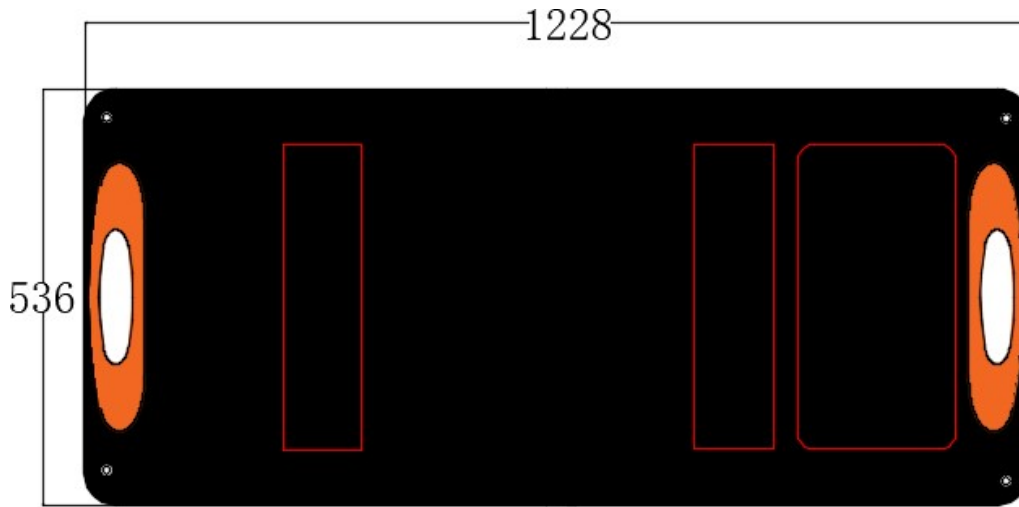
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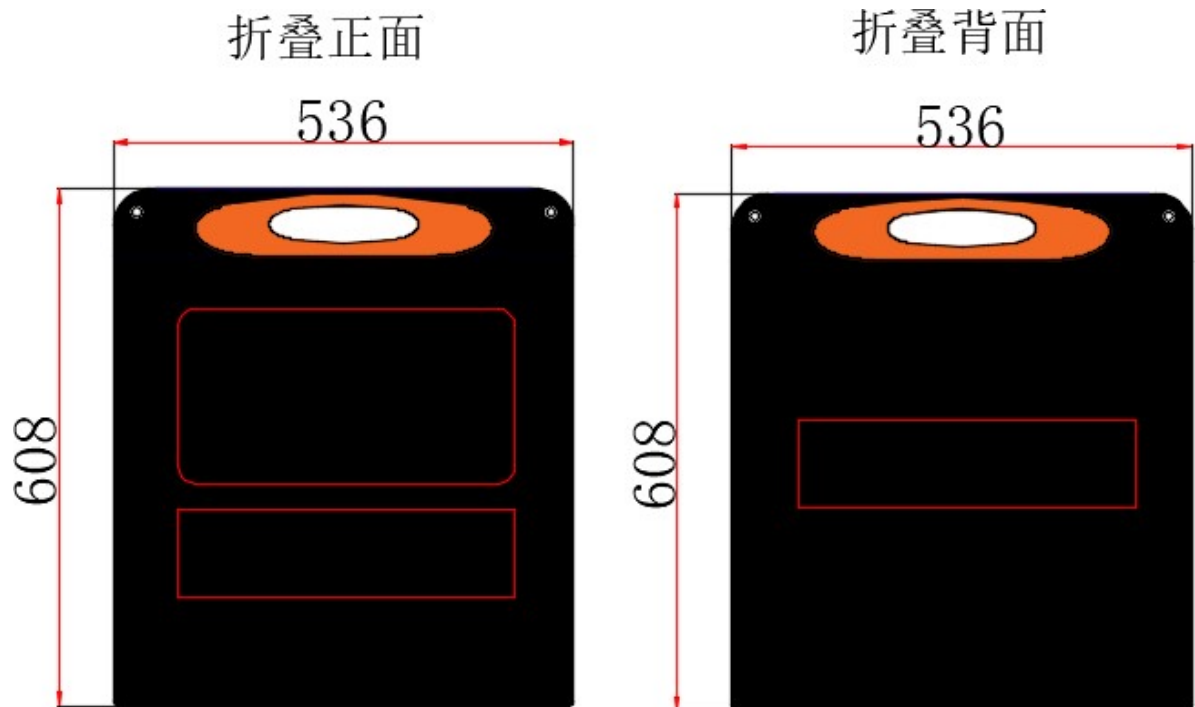
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1. 尺寸规格 Specification description



电压: 20V
功率: 100W
电池片: 166 Sunpower





尺寸 Dimension

W:	536 (±15mm)	L:	1228 (±15mm)	H:	25 (±5mm)
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2.主要参数 Performance Parameter

Item	Parameter
展开尺寸 Dimensions (unfolded)	536*1228*25mm
闭合尺寸 Dimensions (folded)	536*608*38mm
开路电压 Open circuit Voltage (Voc)	理论值 Theory data: 24V (Not less than: 22.8V)
短路电流 Short circuit Current (Isc)	理论值: 6A, (Not less than : 5.7A)
工作电压*Max. power Voltage(Vm)	理论值 Theory data: 20V(Not less than: 19.6V)
工作电流*Max. power Current(Im)	理论值 5A, (Not less than: 4.9A)
USB-A 工作电压和工作电流*Max. power Voltage(Vm) and Max. power Current(Im)	理论值 Theory data: 5V/3.5A 9V/2A 12V/1.5A Max
Type-C 工作电压和工作电流*Max. power Voltage(Vm) and Max. power Current(Im)	理论值 Theory data: 5V/3.5A 9V/2A 12V/1.5A Max
USB-A+USB-C 过流保护 Overcurrent protection	3.5A Max
功率 Max. power (Ppm)	100W±5%
填充因子 Fill factor (FF)	>72.5%
转换效率 Transformation efficiency (EFF)	≥24 %
Warranty :	Pm is not less than 90% in 1 years
Temperature coefficient of ISO (Im)	+0.10%/° C (3.5±0.01%) mA/k
No. of cells of connections:	36=2x9PCSx2
Temperature coefficient of VOC(Vm)	-0.38%/° C (54±10) mV./k)
Temperature coefficient of power	-0.47%.° C (0.38±0.05) %/K)
NOCT(nominal operating cell temperature)	47° C (±2° C)
弱光要求(weak light voltage)	不需用测试弱光
工作温度范围 temperature range	此产品适用于-10--+65°C, 但是最佳工作气温为+25°C This product is suitable for-10+ 65°C, but the best working temperature of + 25°C
重量weight (净重)	3.6±0.2Kg

3.外观标准 Appearance standard

Standard	Devices needed
1. 单个太阳能板电池片不允许部份明显色差、色斑、水印、手印、	目测

<p>油污、污渍。 No obvious color difference, color spots, watermarks, fingerprints, Oil stain</p>	<p>visual detection</p>
<p>2. 电池片允许有轻微崩边, 电池片不露白可接收, 禁止用笔涂 The battery sheet is allowed to have slight edge collapse, and the battery sheet can be accepted if it is not exposed to white, and it is forbidden to paint with a pen.</p>	<p>目测 visual detection</p>
<p>3. 电池片不允许叠在一起, 排片间距均匀, 产品的网格面不允许有刮伤, 四周电池片到 PCB 板边边距$\geq 2.5\text{mm}$。 Batteries are not allowed to be stacked together, the spacing between rows is even, and the grid surface of the product is not allowed. Scratch, and the margin from the battery sheet around to the PCB board is $\geq 2.5\text{mm}$</p>	<p>游标卡尺、 目测 vernier calipers visual detection</p>
<p>4. 电池片正面不允许露白 No exposed white is allowed on the front of the battery.</p>	<p>目测 visual detection</p>
<p>5.PCB 板边允许有杂物, 杂物能被电池片盖住的可以接收 There are sundries allowed on the PCB board edge, and sundries that can be covered by the battery can be received.</p>	<p>目测 visual detection</p>
<p>6. 杂物大小$\leq \phi 2\text{MM}$ 的允许接受, 一个板上允许三个 The size of sundries $\leq \phi 2\text{MM}$ is acceptable, and three sundries are allowed on one board.</p>	<p>目测 visual detection</p>
<p>7. 层压透明度高, 不可有脱层及气泡现象 there must be no delamination or bubbles.</p>	<p>目测 visual detection</p>
<p>8. 出线位置的焊点以及电池片上焊点光滑度好, 无拉尖、虚焊。 The solder joints at the outlet position and the solder joints on the battery chip have good smoothness, and there is no broaching or virtual soldering.</p>	<p>目测 visual detection</p>
<p>9. 正负极准确 Extremely accurate positive and negative</p>	<p>简易测试设备 Simple device</p>
<p>10. 用拉力测试仪拉扯层压后的 EVA 与 PCB 板的胶黏度, 拉力系数$\geq 8\text{N/mm}$, N 为力度单位, mm 为宽度单位, 主要用来检测脱层情况 Pull the adhesive viscosity of the laminated EVA and PCB board with a tensile tester, the tensile coefficient $\geq 8\text{N/mm}$, where n is the unit of strength and mm is the unit of width, which is mainly used for testing. Delamination situation</p>	<p>简易测试设备 Simple device</p>
<p>11. 产品根据图纸留胶边, 切边的切口要光滑, 胶边的尺寸 9-11mm According to the drawing, leave the adhesive edge, and the cut of the edge should be smooth. The size of the adhesive edge is 9- 11mm</p>	<p>游标卡尺 vernier calipers</p>
<p>12. 异型凹点, 凹点的大小占≤ 2 个小格子的允许接收, 一个板上允许两个。 Irregular pits, the size of pits accounts for ≤ 2 small grids, and one plate is allowed to receive. Two are allowed.</p>	<p>目测 visual detection</p>
<p>13. 太阳能板无明显变形 (变形高度距离水平面$\leq 0.5\text{mm}$)。 The solar panel has no obvious deformation (the deformation height is less than or equal to $\leq 0.5\text{mm}$ from the horizontal plane).</p>	<p>目测、游标卡尺 vernier calipers visual detection</p>

<p>14. 不允许 ETFE 表面有起皱、网格太浅或者有凹槽。 No wrinkles, too shallow meshes or grooves are allowed on the surface of ETFE.</p>	<p>目测 visual detection</p>
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4. 材料及生产工艺 Material and Production processes

- (1) 晶片规格 Silicon: Sunpower 高效率电池片
- (2) 布料材质 Fabric material: 加密防水布 Encrypted waterproof cloth
- (3) 线材规格 Wire specification: L=2M UL2464 14#, DC7909
- (4) 生产工艺 Product process: ETFE 层压
- (5) 特殊要求 special requirements: 环保材料 Environmental protection material

5. 注意事项 Important notice:

- (1) 本产品不能与强腐蚀性物质接触
This product cannot contact with strong corrosive objects
- (2) 在操作过程中, 避免硬物划伤表面
To prevent the hard objects from scratching the surface during operation.
- (3) 在运输过程和组装过程中, 不能弯折本产品
The product cannot endure the bending force during transportation and assembly

