

21335-CM-12.8V100Ah Battery Pack Spec

电池包规格书

Model :
型号: 21335-CM-12.8V100Ah

Cell Configuration:
客户代码: C28649

Customer P/N:
客户型号: _____

Nominal Voltage:
标称电压: 12.8V

Capacity:
容量: 100Ah

Draft 起草	Checking 审核	Approved 批准	Customer Confirmation 客户确认
Kenny	Jeff		

Revision History 版本记录

Revision 版本	Date 日期	Editor 编著	Contents 内容
A0	2021-12-29	Kenny	Draft
A1	2022-01-14	Helen	更改标签。
A2	2202-04-21	Kenny	更改钣金颜色和丝印
A3	2022-07-15	Dora	更改电池组贴标位置、电池组额定容量、标准放电温度，增加包装描述、认证要求。

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1. Application 应用

Household energy storage 家庭储能

2. Basic Information 基本信息

Description 描述:	Rechargeable LiFePO4 battery pack 可充磷酸铁锂电池包
Cell Type 电芯:	28148115-52Ah
PCM 保护板:	V02007 PCM-L04S100-G20 同口
Chemistry 化学成份:	LiFePO4
Cell configuration 电芯配置:	2P4S
Voltage Nominal 标称电压:	12.8V
Capacity Nominal 标称容量:	100Ah
Rated Capacity 额定容量:	98Ah
Energy 能量:	1280Wh
Additional function 附加功能:	SOC/Bluetooth
Protection 保护:	<p>A. Over Charge Protection 过充保护</p> <p>B. Over Discharge Protection 过放保护</p> <p>C. Over Current Protection 过流保护</p> <p>E. Short Protection 短路保护</p>

3. Electrical Characters 电气特性

Index. 序号	Items 项目	Parameter 参数
1	Charging Method 充电方式	CC-CV 恒流恒压
2	Charging Voltage 充电电压	14.4±0.1V
3	Over Charging Protect 过充保护	3.75±0.05V
4	Standard Charging Current 标准充电电流	20A
5	Max. Charging Current 最大充电电流	50A
6	Cut-off Charging Current 充电结束电流	2A
7	Standard Discharging Current 标准放电电流	20A
8	Max. Discharging Current 最大放电电流	100A
9	Max Peak Discharging Current 最大瞬间电流	200A (2S)
10	Discharging cut-off Voltage 放电结束电压	8.8V
11	Over Discharging Protect 过放保护	2.2±0.08V
12	Over Charge Current 过充电流	/
13	Over Discharge Current 过放电流	350±50A (断开负载恢复)
14	Internal Resistance 内阻	<50mOhm
15	Short circuit 短路	Yes, Short Circuit Release, Auto Recovery 有, 解除短路, 自动恢复
16	Discharging Over Temperature Protect 放电过温度保护	65℃
17	Charge Over Temperature Protect 充电过温度保护	65℃
18	Standard Charge Temperature 标准充电工作温度	0~45℃

19	Standard Discharge Temperature 标准放电工作温度	-20~60℃
20	Storage Humidity 存储湿度	65%RH not condensed （无凝结）
21	Storage Temperature 存储温度	-20~45℃
22	Weight 重量	About 18Kg

4. Certification 认证

电池组要有 UN38.3 认证。

5. System Block Diagram 系统框图

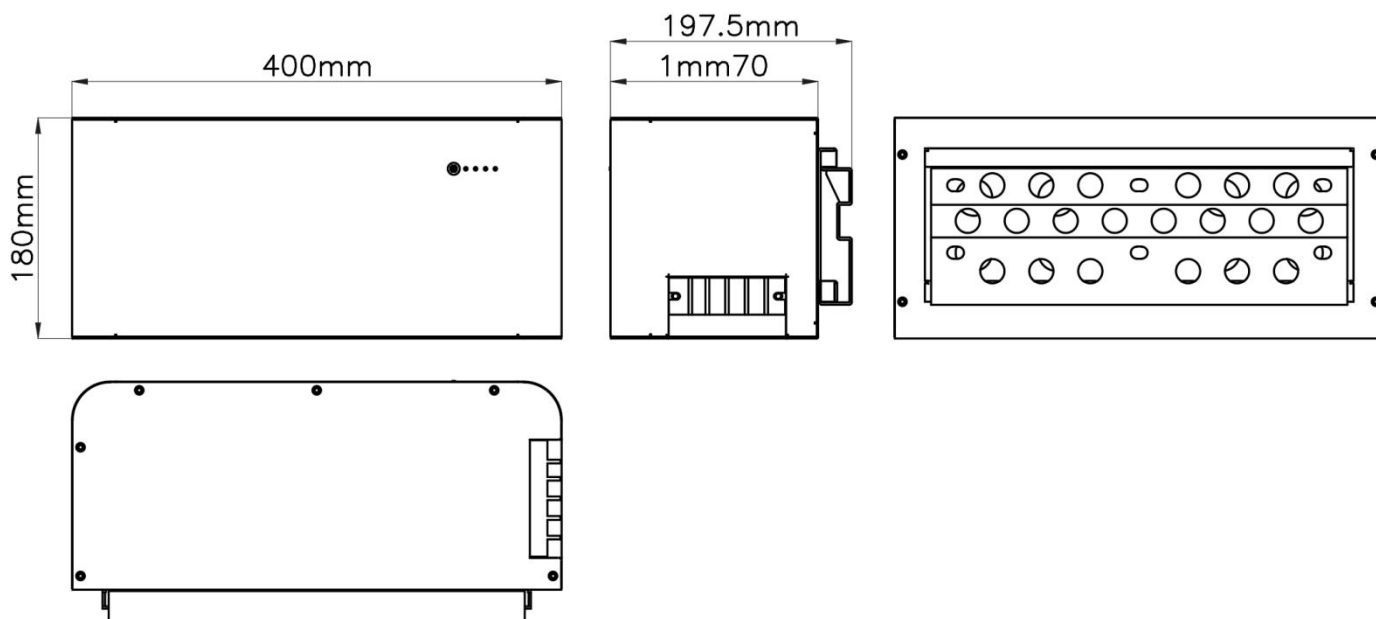
T.B.D.

6. Mechanical Information 结构信息

6.1. Sample Picture 样品照



6.2. Size 尺寸



6.3. Screen printing 丝印

日期	版本	变更内容	姓名
2022/03/09	A0	初始版本发行	GuipinLu

400
177

168.5

备注: 1. 21335-BJ-01-A0丝印图
 2. 箱体喷粉为pantone cool rgray 4C
 3. 丝印效果和钣金颜色需与项目负责人确认

1rd ANGLE				SELECT LEVEL				
DIM.	I	II	III	I	II			
<3	±0.03	±0.06	±0.15	II	图纸号	21335-BJ-01-A0	制作	GuipinLu
>3~50	±0.06	±0.10	±0.15		物料名称	面板	审核	kenny
>50~100	±0.06	±0.10	±0.2		零件料号		批准	
>100	±0.08	±0.15	±0.3		材质	/	单位	mm
ANGULAR	±0.5°	±0.5°	±1°		共 1 页 第 1 页	比例	1:1	日期
					版本	A/0		

6.4. Spare parts 配件

Description: One battery with one hanging plate and 6 M8 explosive screws 说明：一个电池配一个挂板以及 6 个 M8 的爆炸螺丝



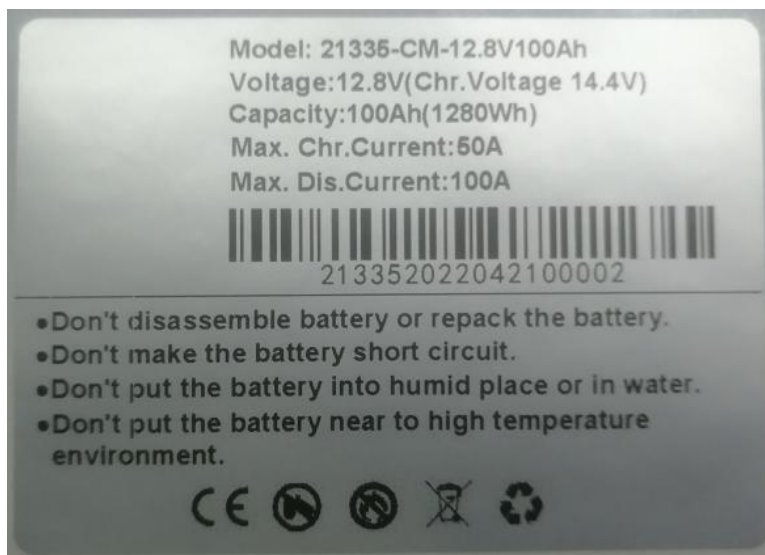
6.5. Terminal 端子信息

P 间距 16mm, 承载电流 100A, M6 螺丝
M6 screw for 100A with the pinch 16mm.



6.6. Label the diagram 标签图

PET 哑银标签要求：标签长 70mm, 宽 50mm, 日期随出货时间更改, 格式示例如下：

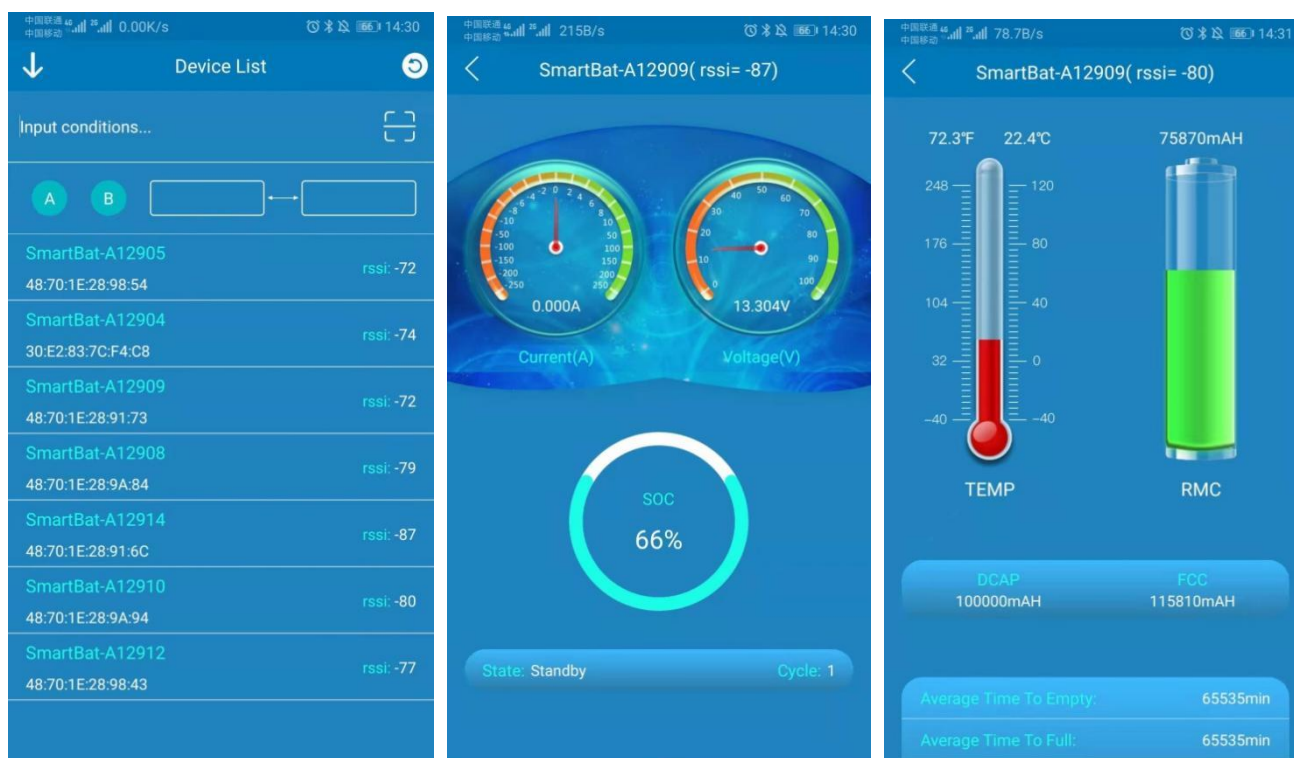


6.7. Drawing Packing 包装图

单个装 UN 箱，电池包四周用珍珠棉填充；外箱硬朗，无不相关标签，包装方式如下：



7. Bluetooth shows 蓝牙显示



8. Caution and prohibition 注意事项

Before using and handling the pack, see carefully attached “Handling Instruction Guide for LiFePO₄ Battery Pack”. 在使用和处理包装之前，请参阅“磷酸铁锂电池包的处理说明书”。

For safety reasons rechargeable batteries are not shipped in a low remaining capacity state. Charge before using.
为了安全起见，可充电电池禁止在低剩余容量状态下运输。使用前请充电。

Do not connect multiple battery packs as parallel or serials for using. This might damage the battery pack, even your equipment's. 请勿将多个电池组并联或串联使用。这可能会损坏电池组，甚至您的设备。

9. Warranty 保修

Manufacturer will be responsible for replacing the battery pack against defects or poor workmanship for 24 months from the date of shipping. Any other problem caused by malfunction of the equipment or misuse of the battery is battery is not covered under this warranty.

电池包从发货之日起 24 个月内出现缺陷或做工不佳等问题由厂商负责更换。任何由于设备故障或使用不当造成的问题，不在本保修范围之内。

10. Handling Instruction Guide for LiFePO₄ Battery Pack 磷酸铁锂电池包使用说明书

10.1. General 总括

Battery packs supplied by Crown Micro have to be handle carefully according to the specification. Here are some more to be followed.

Crown Micro 提供的电池包必须根据规格书正确使用。如下：

10.2. Storage of pack 电池组的储存

The packs are requested to be stored under the following conditions: 电池包请按以下条件下储存：

a. Indoor storage in a cool circumstances without direct sun light on the packs or cartons.

存放在室内阴凉的处，禁止阳光暴晒。

b. Store batteries in a dry location with low humidity, and a temperature range of - 20℃ to +30℃. In case of the long term storage.

长期存放的情况下，需将电池放在干燥（湿度低）的地方，温度范围为-20℃至+ 30℃

c. As long-term storage can accelerate battery self-discharge and lead to the deactivation of the batteries. To minimize the deactivation effect, store battery packs in a temperature range of +10℃ to +30℃.

由于长期存储会加速电池自放电并导致电池的停用。为了最大限度地减少电池消耗，请将电池包放在+ 10℃至+ 30℃的温度范围内。

d. When charging for the first time after long-term storage, deactivation of the packs may have led to decreased capacity. Recover such packs to original performance through repeating several cycles of full charging and discharging.

长时间储存后首次充电时，电池包的停用可能导致容量降低。通过重复几次完全充电和放电循环，将这些电池包恢复到原始性能。

e. When store packs for more than 6 month, charge at least once charring require per 6 months to prevent leakage and deterioration in performance due to self-discharging.

当电池包储存超过 6 个月时，每 6 个月至少需要补电一次，以防止由于自放电而造成的泄漏和性能下降。

10.3. Charging pack 电池包充电

- a. Use suitable charger with the specified voltage and current. We strongly recommend Crown Micro smart battery charger. We can recommend the usage or specification of the charger manufacturing. If you want to get the information about it, please contact us.

使用指定电压和电流的合适充电器。我们强烈推荐使用 Crown Micro 智能电池充电器。我们可以推荐充电器制造的规格和使用。如果您想获取有关信息，请与我们联系。

- b. Never attempt reverse charging. Charring with polarity reversed can cause a reversal in battery polarity, causing gas pressure inside of the battery to rise, which can be lead to leakage of the batteries in the pack.

切勿尝试反向充电。极性反转的充电可能导致电池极性反转，导致电池内部的气压升高，这可能导致电池中的电解液泄漏。

- c. Avoid overcharging. Repeated overcharging can be lead to deterioration in pack performance. And Over-heat occurred.

避免过度充电。重复过充可能导致包装性能下降。导致电池过热。

- d. Charging efficiency drops at temperatures above 40°C.

充电温度在 40°C 以上会导致充电效率下降。

10.4. Protection from unexpected damaged to pack 防止电池包意外损坏

- a. (+) and/or (-) terminals must not be connected in metal wire, necklace, chains.

(+) 正极和/或负极 (-) 端子不得连接在金属线，项链，链条中。

- b. Do not drop packs from height in order to prevent them from possible malfunction or damage.

不要从高处抛掷电池包，以防止它们发生故障或损坏。

- c. Do not twist or bend packs in order to prevent possible damage.

不要扭曲或弯曲电池包，以防止可能的损坏。

10.5. For Safety 安全条款

- a. Do not disassemble packs. 不要拆卸电池包。

- b. Do not use pack when something abnormal found such as smells, deformation, discoloration, and so on.

出现异常现象时，如气味，变形，变色等,请勿使用电池包。

- d. Do not re-use LiFePO4 cells or other parts after removing from the packs.

从电池包中取出后，请勿重新使用磷酸铁锂电池或其他部件。

- e. When the electrolyte leakage occurs, do not touch the liquid.

当发生电解液泄漏时，请勿接触液体。

- f. Once watered, packs may have potential malfunctions. Do not use those packs.

一旦碰水，电池包可能有潜在的故障。不要使用这些电池包。

- g. Do not have packs in the hot-temperature (60°C or more).

禁止在高温（60°C或更高）下使用电池包。

- h. Do not put packs into fire.

电池包禁止接触火源。

- i. Do not crush/nail pack.

禁止碾压或钉子刺穿电池包

- j. Do not apply solder directly to packs.

禁止将焊料直接焊在电池包上。