

# Battery Specification

## 电池说明书

MODEL

型 号: 25.6V300Ah--8S1P

Nominal Capacity

标 称 容 量: 300Ah

Project number

立项编号:

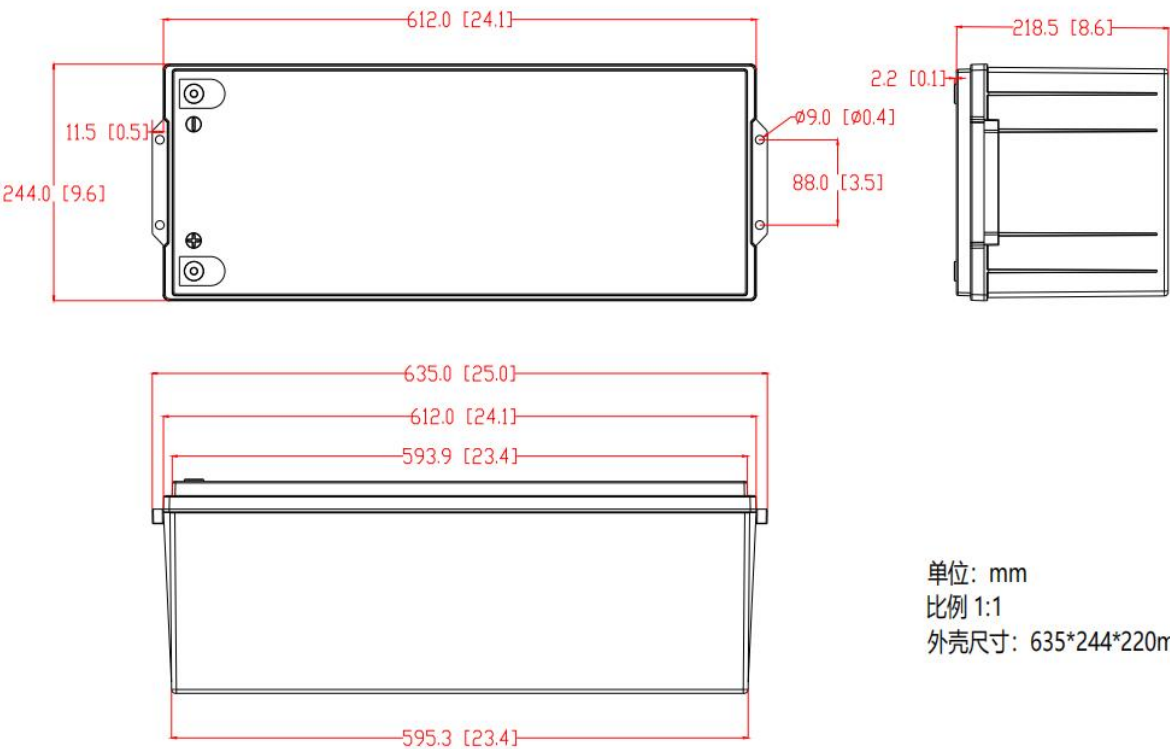
Total Page

文件页数: 6 页

|                       |                             |                            |
|-----------------------|-----------------------------|----------------------------|
| Registered<br>编制      | Checked<br>审核               | Approved<br>批准             |
|                       |                             |                            |
| Customer name<br>客户名称 | Sample confirmation<br>样品确认 | Determine the date<br>确认日期 |
|                       |                             |                            |

|                                                                                                                                               |               |                             |
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|  广东省中矩电源技术有限公司<br>Guangdong Zhongju Power Technology Co.,Ltd | Number 编号:    | Valid Date 生效日期: 2025.11.26 |
|                                                                                                                                               | Edition版本: A0 | 第 2 页 共 6 页                 |

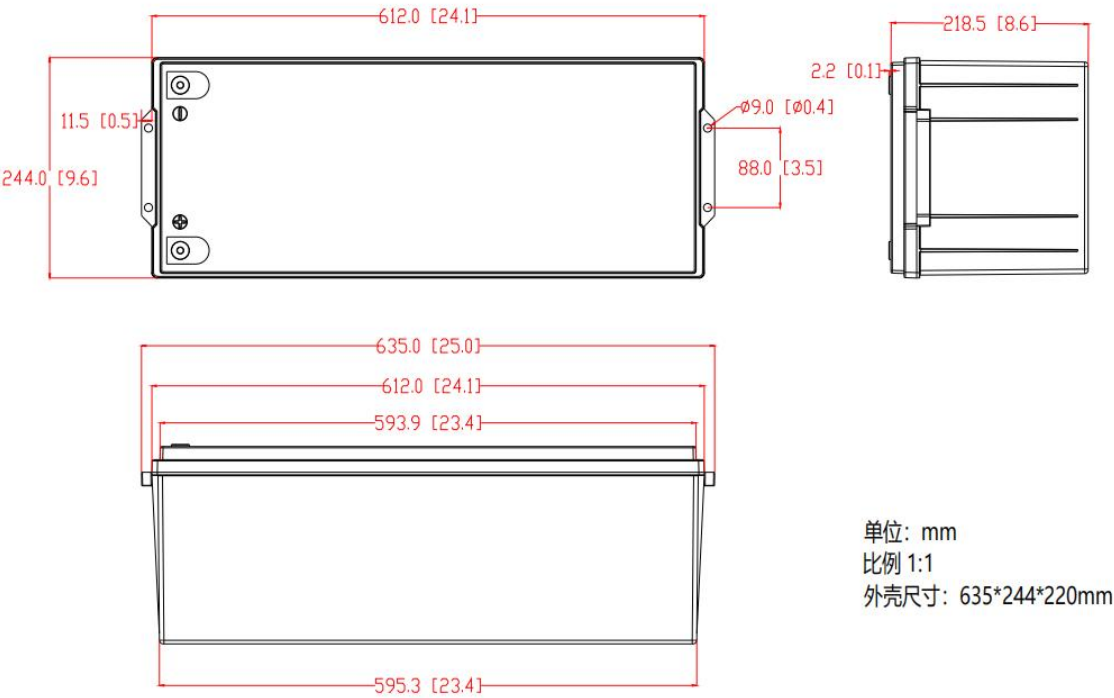
1.Initial Size 初始尺寸



| Product Size产品尺寸: mm,        |                                                          |                 |           |                  |          |
|------------------------------|----------------------------------------------------------|-----------------|-----------|------------------|----------|
| T (Total length) (长度)        | 635.0±1.0                                                | W( Width ) (宽度) | 244.0±1.0 | H( Height ) (高度) | 220±2.0  |
| L (lead wire length) 引出线长    | /                                                        | terminal 端子     | M8        | Power 功率         | 7680Wh   |
| PCM Protection Board PCM 保护板 | JBD-SP21S001-L8S-200A<br>嘉百达-L8S-200A-软件保护板带蓝牙功能         |                 |           | Electric cell 电芯 | 楚能 314Ah |
| Appearance 外观                | Black shell and black cover- Lead acid shell<br>黑壳黑盖-铅酸壳 |                 |           |                  |          |

|                                                                                                                                                      |               |                             |
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2. Battery picture 电池图片



3. Product Specifications 产品规格参数

| No. 序号 | Catalog 目录                       | Specification Requirements 规格要求                             |
|--------|----------------------------------|-------------------------------------------------------------|
| 3.1    | Typical capacity 典型容量            | 300Ah (0.1C discharge)<br>300Ah (0.1C 放电)                   |
|        | Minimum capacity 最小容量            | 300Ah (0.1C discharge)<br>300Ah (0.1C 放电)                   |
| 3.2    | Nominal voltage 标称电压             | 25.6V                                                       |
| 3.3    | Shipping Voltage 出货电压            | 26~29V                                                      |
| 3.4    | Standard charging voltage 标准充电电压 | CC/CV,30A,29.2V (0.1Ccharging)<br>CC/CV,30A,29.2V (0.1C 充电) |
| 3.5    | Standard discharge 标准放电          | CC,60A,20V (0.2Cdischarge )<br>CC,60A,20V (0.2C 放电)         |
| 3.6    | Charge cutoff voltage 充电截止电压     | 28.8-29.2V                                                  |
| 3.7    | Charge cutoff current 充电截止电流     | 0.01C 3A (At CV mode)                                       |
| 3.8    | Discharge cut-off voltage 放电截止电压 | 20V                                                         |
| 3.9    | Charge time 充电时间                 | 10-11hours (standard charge)<br>10-11 小时(0.1C)              |

|                                                                                                                                                                  |  |               |                             |
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|      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.10 | Fast charge/discharge current<br>快速充放电电流                 | 60A (0.2C )                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.11 | Maximum continuous charge/discharge current<br>最大持续充放电电流 | 200A (0.66C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.12 | Recommended charge current<br>建议充电电流                     | 30-60A (0.1-0.2C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.13 | Maximum load/inverter power<br>最大负载/逆变器功率                | 5120W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.14 | Initial internal resistance<br>初始内阻                      | Max:≤30mΩ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.15 | Weight<br>重量                                             | (约): Net weight 净重 49.5±0.5 Kg, Gross weigh 毛重 53.5±0.5Kg                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3.16 | Operating temperature range<br>工作温度范围                    | 1: Charge 0° C~50° C (32° F~122° F)<br>2: Discharge -20° C~60° C (-4° F~140° F)<br>3: Storage -10° C~50° C (14° F~122° F)<br>4: Low temperature cut-off protection (charging) 0° C±4° C (32° F±39.2° F)<br>5: Low temperature cut-off protection (discharge) -20° C±4° C (-4° F±39.2° F)<br>1: 充电 0° C~50° C (32° F~122° F)<br>2: 放电-20° C~60° C (-4° F~140° F)<br>3: 存储-10° C~50° C (14° F~122° F)<br>4: 低温切断保护（充电）0° C±4° C (32° F±39.2° F)<br>5: 低温切断保护（放电）-20° C±4° C (-4° F±39.2° F) |
| 3.17 | Cycle life<br>循环寿命                                       | >2000 cycles (100% DoD) 3000 cycles, 80% DoD<br>>2000 个周期（100%DoD） 3000 个周期，80%DoD                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.18 | Waterproof rating<br>防水等级                                | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.19 | Appearance<br>外观                                         | No scratches, deformation, oil, leakage, breakage<br>无划痕、变形、油污、漏液、破损                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.20 | Terminal type<br>端子类型                                    | M8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.21 | 加热功能                                                     | 无加热功能                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.22 | 蓝牙                                                       | 支持蓝牙功能-APP 小象电动和 VATRER,TEMGO 兼容                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.23 | 屏幕                                                       | 无屏幕                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

4. Basic parameters of protection board 保护板基本参数

|                                                                                                                                                                                                                                                                                                                                                                                                          | 项目(Project)                                          | 规格(Specification)                                                                    |                                                          |            | 单位<br>(Unit) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------|------------|--------------|
|                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      | 最小值<br>MIN                                                                           | 典型值<br>TYP                                               | 最大值<br>MAX |              |
| 过压和欠压保护<br>(Over-voltage and Under-voltage protection)                                                                                                                                                                                                                                                                                                                                                   | 过充保护电压(Over-voltage)                                 | 3.700                                                                                | 3.750                                                    | 3.800      | V            |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 过充保护延时(Over-voltage delay)                           | 1000                                                                                 | 2000                                                     | 3000       | mS           |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 过充保护释放(Over-voltage release)                         | 3.550                                                                                | 3.600                                                    | 3.650      | V            |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 过放保护电压(Under-voltage)                                | 2.100                                                                                | 2.200                                                    | 2.300      | V            |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 过放保护延时(Under-voltage delay)                          | 1000                                                                                 | 2000                                                     | 3000       | mS           |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 过放保护释放(Under-voltage release)                        | 2.500                                                                                | 2.600                                                    | 2.700      | V            |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 过放保护释放条件<br>(Under-voltage release conditions)       | 电压自恢复或充电恢复<br>(Self-recovery by increasing voltage or charging)                      |                                                          |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 充电过流保护值<br>(Over-current Charge protection value)    | 见下面过流保护值配置表<br>(Refer to configuration table of over-current protection value below) |                                                          |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 充电过流延时<br>(Over-current Charge delay)                | 25                                                                                   | 30                                                       | 35         | S            |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 充电过流释放条件<br>(Over-current Charge release conditions) | 延时 32S 后自动恢复<br>(Automatic recover after a delay of 32S)                             |                                                          |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 一级放电过流保护值<br>(1th Over-current Discharge value)      | 见下面过流保护值配置表<br>(Refer to configuration table of over-current protection value below) |                                                          |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 一级放电过流保护延迟<br>(1th Over-current Discharge delay)     | 25                                                                                   | 30                                                       | 35         | S            |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 二级放电过流保护电流值<br>(2th Over-current Discharge value)    | 见下面过流保护值配置表<br>(Refer to configuration table of over-current protection value below) |                                                          |            |              |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 二级放电过流 2 保护延迟<br>(2th Over-current Discharge delay)  | 250                                                                                  | 500                                                      | 1000       | mS           |
|                                                                                                                                                                                                                                                                                                                                                                                                          | 短路保护<br>(Short Circuit Protection)                   | 放电过流保护恢复条件<br>(Over-current Discharge release)                                       | 延时 32S 后自动恢复<br>(Automatic recover after a delay of 32S) |            |              |
| 短路保护电流<br>(Short circuit protection current value)                                                                                                                                                                                                                                                                                                                                                       |                                                      | 见下面过流保护值配置表<br>(Refer to configuration table of over-current protection value below) |                                                          |            |              |
| 短路保护延迟时间<br>(Short circuit protection delay time)                                                                                                                                                                                                                                                                                                                                                        |                                                      | 200                                                                                  | 350                                                      | 500        | uS           |
| 短路保护恢复<br>(Short circuit protection recovery)                                                                                                                                                                                                                                                                                                                                                            |                                                      | 断开负载后约 5 秒自动释放<br>Recover by releasing load after approximately 5s                   |                                                          |            |              |
| 短路说明: 短路电流小于最小值或高于最大值可能会造成短路保护失效, 短路电流超过2000A, 不保证有短路保护, 也不建议做短路保护测试。<br>(Short-circuit description: The short-circuit current is less than the minimum value or higher than the maximum value, which may cause the short-circuit protection to fail, and the short-circuit current exceeds 2000A, short-circuit protection is not guaranteed, and short-circuit protection testing is not recommended.) |                                                      |                                                                                      |                                                          |            |              |

| 持续电流<br>(Continuous current) |           | 充电过流保护值<br>(Charge Over-current value) | 一级放电过流保护值<br>(1 <sup>st</sup> discharge Over-current value) | 二级放电过流保护值<br>(The second discharge Over-current value) | 短路保护值<br>(Short circuit protection value) |
|------------------------------|-----------|----------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------|
| Charge                       | Discharge |                                        |                                                             |                                                        |                                           |
| 80A                          | 80A       | 100A±5A                                | 100A±5A                                                     | 250±50A                                                | 700±100A                                  |
| 100A                         | 100A      | 120A±5A                                | 120A±5A                                                     | 350±50A                                                | 700±100A                                  |
| 120A                         | 120A      | 150A±5A                                | 150A±5A                                                     | 400±60A                                                | 1100±160A                                 |
| 150A                         | 150A      | 180A±5A                                | 180A±5A                                                     | 500±60A                                                | 1400±160A                                 |
| 200A                         | 200A      | 250A±5A                                | 250A±5A                                                     | 700±60A                                                | 1400±160A                                 |

|                                                                                                                                                                   |                                                                    |               |                             |       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|-----------------------------|-------|----|
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| 温度保护<br>(Short Circuit Discharge)                                                                                                                                 | 充电高温保护值<br>(Charging high temperature protection value)            | 62            | 65                          | 68    | °C |
|                                                                                                                                                                   | 充电高温保护释放值<br>(Charging high temperature protection release value)  | 57            | 60                          | 63    | °C |
|                                                                                                                                                                   | 充电低温保护值<br>(Charging low temperature protection value)             | -3            | 0                           | 3     | °C |
|                                                                                                                                                                   | 充电低温保护释放值<br>(Charging low temperature protection release value)   | 2             | 5                           | 8     | °C |
|                                                                                                                                                                   | 放电高温保护值<br>(Discharge high temperature protection value)           | 72            | 75                          | 78    | °C |
|                                                                                                                                                                   | 放电高温保护释放值<br>(Discharge high temperature protection release value) | 62            | 65                          | 68    | °C |
|                                                                                                                                                                   | 放电低温保护值<br>(Discharge low temperature protection value)            | -17           | -20                         | -23   | °C |
|                                                                                                                                                                   | 放电低温保护释放值<br>(Discharge low temperature protection release value)  | -7            | -10                         | -13   | °C |
|                                                                                                                                                                   | FET 高温保护值<br>(FET high temperature protection value)               | 100           | 105                         | 110   | °C |
|                                                                                                                                                                   | FET 高温保护释放值<br>(FET high temperature protection release value)     | 65            | 70                          | 75    | °C |
| 均衡功能<br>(Balance Function)                                                                                                                                        | 均衡开启电压<br>(Balance function turn-on voltage)                       | 3.250         | 3.300                       | 3.350 | V  |
|                                                                                                                                                                   | 开启压差<br>(Difference opening voltage value)                         |               | 15                          |       | mV |
|                                                                                                                                                                   | 均衡电流<br>(Balance current)                                          | 100           |                             | 150   | mA |

## FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.