

# LITHIUM BATTERY

锂离子蓄电池

ENERGY  
STORAGE SYSTEM

储能系统

**MK ENERGY (SHENZHEN) CO., LTD.**  
迈科新能源(深圳)有限公司

电子邮件/Email: [sales@mkenergycn.com](mailto:sales@mkenergycn.com)  
网址/Website: [www.mkenergycn.com](http://www.mkenergycn.com)

**销售中心/Sales Center:**  
1806, Building F, Nanshan Wisdom Valley Industrial Park,  
Shahe West Road, Nanshan District, Shenzhen, China.  
深圳市南山区沙河西路南山智谷产业园F栋1806

**惠州基地/Huizhou Base:**  
Floor 8-10, Building 3, Runhao Industrial Park, No. 9, Fourth  
Ring South Road, Zhongkai High-tech Industrial  
Development Zone, Huizhou City, Guangdong Province.  
广东省惠州市仲恺高新技术产业开发区四环南路  
9号润皓产业园3栋8-10楼

# GROUP PROFILE 集团简介



**A Professional Battery  
Manufacturer,  
Established In 2015**

专业电池制造商 成立于 2015 年

**500 + Employees  
50 + R&D Engineers**

500 多名员工 50 多名研发工程师

**The output  
Value Reached  
80+ million USD**

产值达到 8000 多万美元

**Annual Output  
800+ MWh**

年产出 800+MWh

**Exported  
Countries 100+**

电池出口国家已达 100+

**3 Branches  
2 Sales Center  
2 Production Base**

3家分公司  
2个销售中心 2个生产基地

## 1 Of The Two Production Bases 2个生产基地之一



## 1 Of The Two Marketing Centers 2个营销中心之一





# Wall Mounted LiFePO<sub>4</sub> Battery

壁挂式磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT



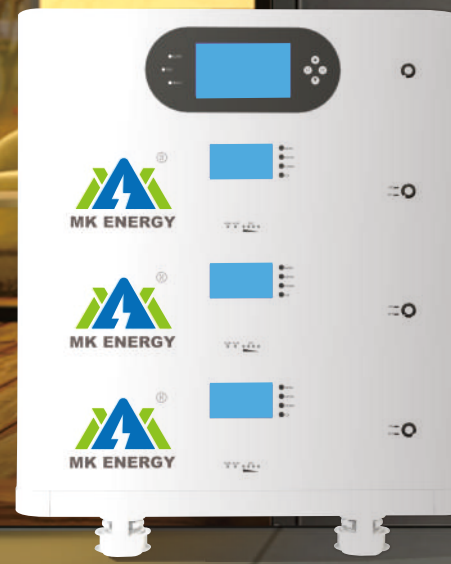
抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



温度监控  
TEMPERATURE  
MONITORING



# Stackable LiFePO<sub>4</sub> Battery

堆叠式磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT



抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



温度监控  
TEMPERATURE  
MONITORING

## System Parameter 系统参数

FC IEC CE

Technology: Lithium Iron Phosphate (LiFePO<sub>4</sub>)

产品技术: 磷酸铁锂(LiFePO<sub>4</sub>)

电压 / Voltage: 25.6V - 48V - 51.2V

容量 / Capacity: 50Ah to 300Ah

循环寿命 / Cycle life: ≥ 6000 times

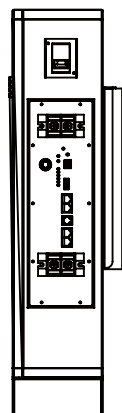
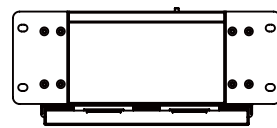
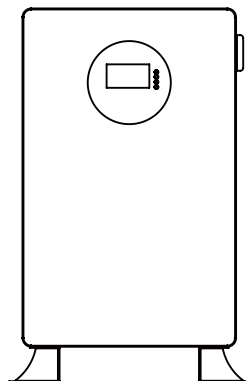
工作温度 / Operating temp: -20°C~ 60°C

应用范围/Application

太阳能系统 / Solar system

电信通信 / Telecom

其他储能领域 / Other energy storage areas



### 壁挂式磷酸铁锂电池/Wall Mounted LiFePO<sub>4</sub> Battery

| 型号<br>Model | 电压 (伏特)<br>Voltage (V) | 容量 (安时)<br>Capacity (Ah) | 尺寸/Dimension (毫米/MM) |         |          |
|-------------|------------------------|--------------------------|----------------------|---------|----------|
|             |                        |                          | 长/Length             | 宽/Width | 高/Height |
| W25.6-100   | 25.6                   | 100                      | 570                  | 360     | 140      |
| W25.6-150   | 25.6                   | 150                      | 640                  | 310     | 225      |
| W25.6-200   | 25.6                   | 200                      | 600                  | 420     | 210      |
| W25.6-300   | 25.6                   | 300                      | 650                  | 485     | 240      |
| W48-100     | 48                     | 100                      | 600                  | 420     | 210      |
| W48-150     | 48                     | 150                      | 560                  | 460     | 225      |
| W48-200     | 48                     | 200                      | 860                  | 540     | 160      |
| W48-300     | 48                     | 300                      | 780                  | 485     | 240      |
| W51.2-100   | 51.2                   | 100                      | 600                  | 420     | 210      |
| W51.2-150   | 51.2                   | 150                      | 560                  | 460     | 225      |
| W51.2-200   | 51.2                   | 200                      | 860                  | 540     | 160      |
| W51.2-300   | 51.2                   | 300                      | 780                  | 485     | 240      |

## System Parameter 系统参数

FC IEC CE

Technology: Lithium Iron Phosphate (LiFePO<sub>4</sub>)

产品技术: 磷酸铁锂(LiFePO<sub>4</sub>)

电压 / Voltage: 25.6V - 51.2V

容量 / Capacity: 100Ah to 400Ah

循环寿命 / Cycle life: ≥ 6000 times

工作温度 / Operating temp: -20°C~ 60°C

应用范围/Application

照明 / Lighting 电视、电脑 / TV, PC

手机充电 / Phone Charging 冰箱 / Refrigerator

空调 / Air-conditioner 安全系统 / Security system

洗衣机 / Washing machine 应急系统 / Emergency system

### 可堆叠式磷酸铁锂电池/Stackable LiFePO<sub>4</sub> Battery

| 型号 / Model | 2560Wh | 5120Wh | 10240Wh | 15360Wh | 20480Wh |
|------------|--------|--------|---------|---------|---------|
|------------|--------|--------|---------|---------|---------|

### 电池/Battery

| 型号 / Model         | 25.6V100Ah | 51.2V100Ah | 51.2V200Ah | 51.2V300Ah | 51.2V400Ah |
|--------------------|------------|------------|------------|------------|------------|
| 电压 / Voltage       | 25.6V      | 51.2V      |            |            |            |
| 容量 / Capacity      | 100Ah      |            | 200Ah      | 300Ah      | 400Ah      |
| 能量 / Energy        | 2.56kwh    | 5.12kwh    | 10.24kwh   | 15.36kwh   | 20.48Kwh   |
| 设计寿命 / Design life | 16 years   |            |            |            |            |

### 逆变器/Inverter

可选项 / Optional

### 显示屏/Display

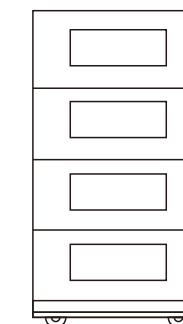
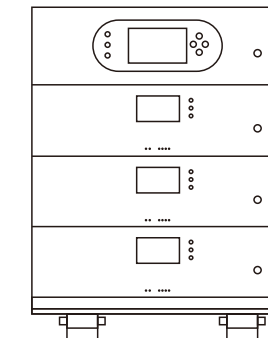
LCD+LED

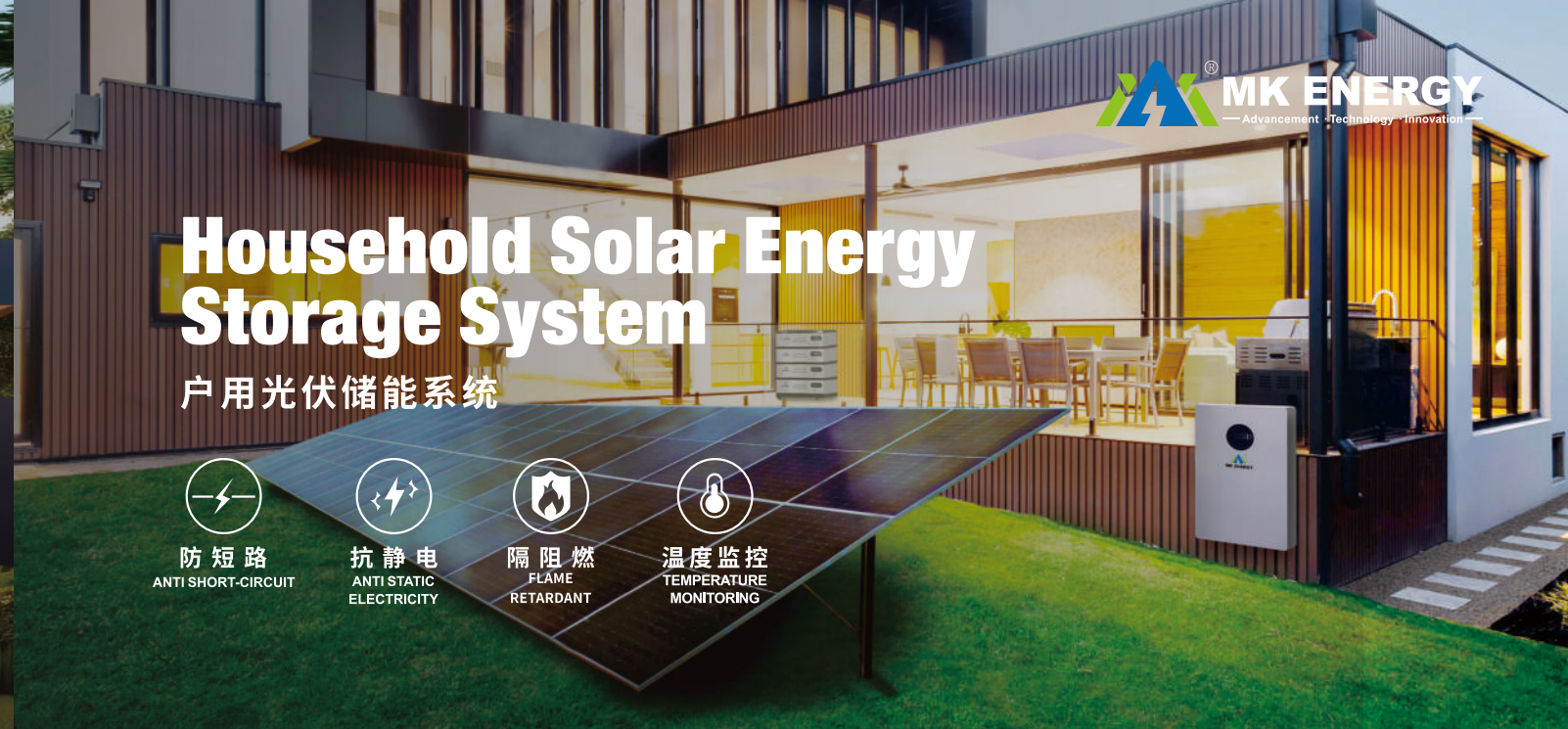
### 通信接口/Communication Interface

RS485/RS232/CAN

### 温度范围/Temperature Range

-20~60°C





## System Parameter 系统参数



### 产品要点/Product essentials

- 内置BMS, 实现电池充放电双重保护。  
Built in BMS can achieve dual protection for battery charging and discharging.
- 适用于各种家用电器。  
Suitable for various household appliances.
- 多种直流输出接口: 支持不同设备同时充电。  
Multiple types of DC output interfaces: supporting simultaneous charging of different devices.
- 一体化结构, 集成逆变器/MPPT控制器/锂电池。  
Integrated structure, integrating inverter/MPPT controller/lithium battery.

### 储能逆变器一体机/All-in-One Energy Storage System

|                                 |                                |  |  |
|---------------------------------|--------------------------------|--|--|
| 产品形态/Product Form               | 立式/Vertical                    |  |  |
| 电池电压/Battery Voltage            | 51.2V                          |  |  |
| 锂电激活/Lithium Battery Activation | 支持(市电或光伏)/Support (Grid or PV) |  |  |
| 锂电通讯/Lithium Ion Communication  | 支持/Support                     |  |  |

### 逆变器/Inverter

|                                   |                       |                    |      |
|-----------------------------------|-----------------------|--------------------|------|
| 额定功率/Rated Power                  | 5kW                   | 10kW               | 15kW |
| 转化效率/Conversion Efficiency        | 94%                   |                    |      |
| 市电输入<br>Electric Supply<br>Input  | 充电电流/Charging Current | 50A                | 100A |
|                                   | 输入电压范围/Input Voltage  | 220/230/240VAC     |      |
|                                   | 输入频率/Input Frequency  | 50~60Hz            |      |
| 市电输出<br>Electric Supply<br>Output | 输出电压/Output Voltage   | 220/230/240VAC     |      |
|                                   | 输出频率/Output Frequency | 50~60Hz            |      |
|                                   | 输出波形/Output Waveform  | Pure SineWave/纯正弦波 |      |

### 蓄电池/Battery

|                                   |                    |           |           |           |           |           |
|-----------------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|
| Model/型号                          | 5kW+5kWh           | 5kW+10kWh | 5kW+15kWh | 5kW+20kWh | 5kW+25kWh | 5kW+30kWh |
| Voltage/电压                        | 51.2               |           |           |           |           |           |
| Capacity/容量                       | 5kWh               | 10kWh     | 15kWh     | 20kWh     | 25kWh     | 30kWh     |
| End Of Charging Voltage/充电终止电压    | 59.2               |           |           |           |           |           |
| End Of Discharging Voltage/放电终止电压 | 43.2               |           |           |           |           |           |
| Max. Charging Current最大充电电流       | 100A               |           |           |           |           |           |
| Max. Discharging Current最大放电电流    | 100A               |           |           |           |           |           |
| Cycle Life/循环寿命                   | >6000 cycles@0.2C  |           |           |           |           |           |
| Operating Temp. Range/工作温度范围      | -15°C~60°C         |           |           |           |           |           |
| Humidity/湿度                       | 5%~95%             |           |           |           |           |           |
| Safety & Certification/安全及认证      | CE&IEC62619/UL1973 |           |           |           |           |           |
| Communication/通信方式                | RS485&RS232&CAN    |           |           |           |           |           |

## System Parameter 系统参数



### Technology: Lithium Iron Phosphate (LiFePO4)

#### 产品技术: 磷酸铁锂(LiFePO4)

电压 / Voltage: 25.6V - 51.2V

容量 / Capacity: 100Ah to 300Ah

循环寿命 / Cycle life: ≥ 6000 times

工作温度 / Operating temp: -20°C~ 60°C

#### 应用范围/Application

|                       |                         |
|-----------------------|-------------------------|
| 照明 / Lighting         | 电视、电脑 / TV, PC          |
| 手机充电 / Phone Charging | 冰箱 / Refrigerator       |
| 空调 / Air-conditioner  | 安全系统 / Security system  |
| 洗衣机 / Washing machine | 应急系统 / Emergency system |

### 户用光伏储能系统/Household Solar Energy Storage System

|            |        |        |         |         |
|------------|--------|--------|---------|---------|
| 型号 / Model | 2560Wh | 5120Wh | 10240Wh | 15360Wh |
|------------|--------|--------|---------|---------|

### 电池/Battery

|               |            |            |            |            |
|---------------|------------|------------|------------|------------|
| 型号 / Model    | 25.6V100Ah | 51.2V100Ah | 51.2V200Ah | 51.2V300Ah |
| 电压 / Voltage  | 25.6V      | 51.2V      |            |            |
| 容量 / Capacity | 100Ah      |            | 200Ah      | 300Ah      |
| 能量 / Energy   | 2.56kwh    | 5.12kwh    | 10.24kwh   | 15.36kwh   |

设计寿命 / Design life 20 years

### 太阳能电池板/Solar Panel

|       |           |      |      |      |
|-------|-----------|------|------|------|
| Model | 450W/550W |      |      |      |
| QTY   | 2pcs      | 3pcs | 6pcs | 8pcs |

### 逆变器/Inverter

|       |           |           |
|-------|-----------|-----------|
| Model | 3000W/24V | 5500W/48V |
|-------|-----------|-----------|

### 显示屏/Display

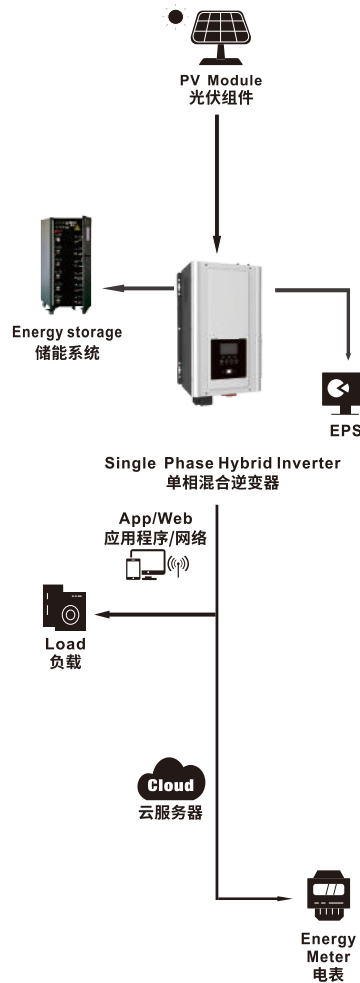
LCD+LED

### 通信接口/Communication Interface

RS485/RS232/CAN

### 温度范围/Temperature Range

-20~60°C



Solar Energy Storage System  
太阳能存储系统



# Rack Mounted LiFePO<sub>4</sub> Battery

机架式磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT



抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



温度监控  
TEMPERATURE  
MONITORING



# HV UPS LiFePO<sub>4</sub> Battery System

高压UPS磷酸铁锂电池系统



防短路  
ANTI SHORT-CIRCUIT



抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



温度监控  
TEMPERATURE  
MONITORING

## System Parameter 系统参数

FC IEC CE

Technology: Lithium Iron Phosphate (LiFePO<sub>4</sub>)

产品技术: 磷酸铁锂(LiFePO<sub>4</sub>)

电压 / Voltage: 25.6V - 48V - 51.2V

容量 / Capacity: 50Ah to 300Ah

循环寿命 / Cycle life: ≥ 6000 times

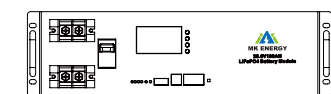
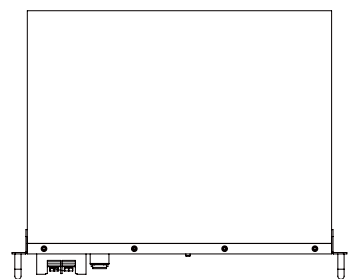
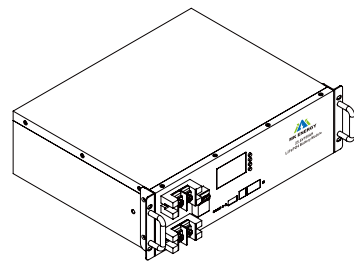
工作温度 / Operating temp: -20°C ~ 60°C

应用范围/Application

数据中心 / Data Center

电信通信 / Telecom

太阳能系统 / Solar System



### 机架式磷酸铁锂电池/Rack Mounted LiFePO<sub>4</sub> Battery

| 型号<br>Model | 机箱<br>Case | 电压(伏特)<br>Voltage(V) | 容量(安时)<br>Capacity(Ah) | 尺寸/Dimension(毫米/MM) |      |      |      |     |
|-------------|------------|----------------------|------------------------|---------------------|------|------|------|-----|
|             |            |                      |                        | 长/L1                | 长/L2 | 宽/W1 | 宽/W2 | 高/H |
| LFP25.6-100 | 3U         | 25.6                 | 100                    | 442                 | 482  | 350  | 350  | 133 |
| LFP48-50    | 3U         | 48                   | 50                     | 442                 | 482  | 350  | 350  | 133 |
| LFP48-100   | 3U         | 48                   | 100                    | 442                 | 482  | 400  | 396  | 133 |
| LFP48-100   | 4U         | 48                   | 100                    | 442                 | 482  | 480  | 520  | 177 |
| LFP48-150   | 6U         | 48                   | 150                    | 442                 | 482  | 480  | 520  | 222 |
| LFP48-200   | 6U         | 48                   | 200                    | 442                 | 482  | 500  | 500  | 222 |
| LFP48-250   | 6U         | 48                   | 250                    | 442                 | 482  | 570  | 570  | 280 |
| LFP48-300   | 6U         | 48                   | 300                    | 442                 | 482  | 570  | 570  | 280 |
| LFP51.2-50  | 3U         | 51.2                 | 50                     | 442                 | 482  | 350  | 350  | 133 |
| LFP51.2-100 | 3U         | 51.2                 | 100                    | 442                 | 482  | 480  | 520  | 133 |
| LFP51.2-100 | 4U         | 51.2                 | 100                    | 442                 | 482  | 480  | 520  | 177 |
| LFP51.2-150 | 6U         | 51.2                 | 150                    | 442                 | 482  | 480  | 520  | 222 |
| LFP51.2-200 | 6U         | 51.2                 | 200                    | 442                 | 482  | 500  | 500  | 222 |
| LFP51.2-250 | 6U         | 51.2                 | 250                    | 442                 | 482  | 570  | 570  | 280 |
| LFP51.2-300 | 6U         | 51.2                 | 300                    | 442                 | 482  | 570  | 570  | 280 |

## System Parameter 系统参数

FC IEC CE

产品要点/Product essentials

- 长寿命LFP电池, 多级安全保护设计。  
Long life LFP cell, multi-level safety protection design.
- 4.3英寸LED显示屏, 提供详细的操作信息。  
4.3" LED display for detailed operation information.
- 充电和放电独立保护。  
Independent protection for charge and discharge.
- 标准19英寸机架设计, 安装方便。  
Standard 19" rack design, easy installation.
- 温度范围宽:-20~ 55°C。  
Wide temperature range: -20 ~ 55°C.
- 并联连接, 获得更多能量。  
Parallel connection for more energy.
- 适用于5KVA~10KVA UPS。  
Suitable for 5KVA~10KVA UPS.
- BMS全寿命保护。  
BMS full life protection.

### 高压UPS磷酸铁锂电池系统/HV UPS LiFePO<sub>4</sub> Battery System

| 型号<br>Model | 电压(伏特)<br>Voltage(V) | 容量(安时)<br>Capacity(Ah) | 尺寸/Dimension(毫米/MM) |     |      |
|-------------|----------------------|------------------------|---------------------|-----|------|
|             |                      |                        | 长/L                 | 宽/W | 高/H  |
| 192V30Ah    | 192                  | 30                     | 600                 | 600 | 755  |
| 192V50Ah    | 192                  | 50                     | 600                 | 600 | 755  |
| 204.8V100AH | 204.8                | 100                    | 600                 | 600 | 980  |
| 204.8V200AH | 204.8                | 200                    | 600                 | 570 | 1280 |
| 384V100AH   | 384                  | 100                    | 600                 | 800 | 2000 |
| 384V200AH   | 384                  | 200                    | 1760                | 660 | 1504 |



# Industrial / Commercial Energy Storage System

工业/商业储能系统



防短路  
ANTI SHORT-CIRCUIT



抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



温度监控  
TEMPERATURE  
MONITORING



# RV&Marine LiFePO<sub>4</sub> Battery

房车&船舶用磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT



抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



温度监控  
TEMPERATURE  
MONITORING

## System Parameter 系统参数

FC IEC CE

**Technology: Lithium Iron Phosphate (LiFePO<sub>4</sub>)**  
**产品技术: 磷酸铁锂(LiFePO<sub>4</sub>)**

电压 / Voltage: 614.4V~1228.8V

容量 / Capacity: 50kwh~100Mwh

循环寿命 / Cycle life: ≥ 6000 times

工作温度 / Operating temp: -20°C~ 60°C

### 应用范围/Application

EMS 系统 / EMS system

液晶显示屏 / LCD

交换机 / Interchanger

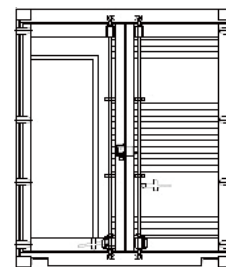
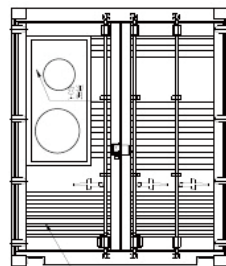
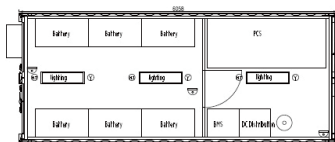
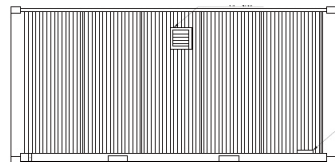
监控软件 / Monitoring software

### 工业/商业储能系统/Industrial / Commercial Energy Storage System

| 型号/Model | 200KWh | 500KWh | 1MWh | 5MWh | 10MWh |
|----------|--------|--------|------|------|-------|
|----------|--------|--------|------|------|-------|

### 电池/Battery

|                                          |                                                    |                 |                                                       |                                                        |                                                        |
|------------------------------------------|----------------------------------------------------|-----------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| 型号 / Model                               | 51.2V280Ah                                         |                 |                                                       |                                                        | 76.8V280Ah                                             |
| 系列 /Series                               | 14pcs                                              | 12pcs*3 cluster | 12pcs*6 cluster                                       | 15pcs*24 cluster                                       | 16pcs*15 cluster                                       |
| 电压 / Voltage                             | 716.8V                                             | 614.4V          |                                                       | 768V                                                   | 1228.8V                                                |
| 容量 / Capacity                            | 280Ah                                              |                 |                                                       |                                                        |                                                        |
| 能量 /Energy                               | 200.704kwh                                         | 516.096kwh      | 1032.192kwh                                           | 5160.96kwh                                             | 10321.92kwh                                            |
| 集装箱 Container<br>尺寸 dimension            | 3030mm*2438mm<br>*2590mm<br>(L*W*H)                |                 | 6060mm*2438mm<br>*2590mm (L*W*H)<br>20ft HQ container | 12192mm*2438mm<br>*2896mm (L*W*H)<br>40ft HQ container | 1*20ft HQ +1*40ft HQ                                   |
| 高压控制方案<br>High voltage case              | DC1000V200A switch, DC fuse, splitter, power, etc. |                 |                                                       |                                                        | DC1000V300A<br>switch,DC fuse,<br>splitter,power, etc. |
| 电池管理单元<br>BMU                            | 16S*3.2V                  lithium battery          |                 |                                                       |                                                        | 24S*3.2V<br>lithium battery                            |
| 电力控制系统<br>Power Control<br>System(PCS)   | 100KW                                              |                 | 500KW                                                 | 630KW                                                  | 1250KW                                                 |
| 温度调节系统<br>Industrial air<br>conditioning | 220VAC 1500W                                       |                 | 220VAC 1500W                                          |                                                        |                                                        |
| 设计寿命 /Design life                        | 16 years                                           |                 |                                                       |                                                        |                                                        |



## System Parameter 系统参数

FC IEC CE

**Technology: Lithium Iron Phosphate (LiFePO<sub>4</sub>)**  
**产品技术: 磷酸铁锂(LiFePO<sub>4</sub>)**

电压 / Voltage: 12.8V - 25.6V

容量 / Capacity: 6Ah to 400Ah

循环寿命 / Cycle life: ≥ 6000 times

工作温度 / Operating temp: -20°C~ 60°C

### 应用范围/Application

太阳能系统 / Solar system

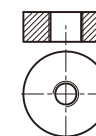
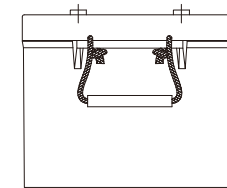
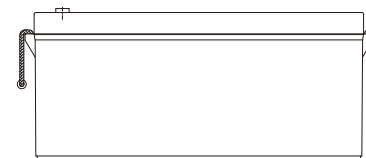
船舶 / Marine vessels

房车 / Recreational vehicles

其他储能领域 / Other energy storage areas

### 房车和船舶用磷酸铁锂电池/RV&Marine LiFePO<sub>4</sub> Battery

| 型号 Model    | 电压 (伏特) Voltage (V) | 容量 (安时) Capacity (Ah) | 尺寸/Dimension (毫米/MM) |         |          |
|-------------|---------------------|-----------------------|----------------------|---------|----------|
|             |                     |                       | 长/Length             | 宽/Width | 高/Height |
| LFP12-6     | 12.8                | 6                     | 151                  | 65      | 100      |
| LFP12-12    | 12.8                | 12                    | 150                  | 95      | 103      |
| LFP12-18    | 12.8                | 18                    | 180                  | 77      | 168      |
| LFP12-24    | 12.8                | 24                    | 166                  | 175     | 125      |
| LFP12-30    | 12.8                | 30                    | 166                  | 175     | 125      |
| LFP12-50    | 12.8                | 50                    | 229                  | 138     | 210      |
| LFP12-60    | 12.8                | 60                    | 229                  | 138     | 210      |
| LFP12-80    | 12.8                | 80                    | 260                  | 168     | 210      |
| LFP12-100   | 12.8                | 100                   | 330                  | 175     | 225      |
| LFP12-100   | 12.8                | 100                   | 260                  | 168     | 210      |
| LFP12-150   | 12.8                | 150                   | 483                  | 170     | 240      |
| LFP12-200   | 12.8                | 200                   | 522                  | 240     | 225      |
| LFP12-200   | 12.8                | 200                   | 500                  | 186     | 244      |
| LFP12-300   | 12.8                | 300                   | 522                  | 268     | 225      |
| LFP12-300   | 12.8                | 300                   | 382                  | 190     | 250      |
| LFP12-400   | 12.8                | 400                   | 522                  | 268     | 225      |
| LFP25.6-50  | 25.6                | 50                    | 330                  | 175     | 225      |
| LFP25.6-100 | 25.6                | 100                   | 522                  | 240     | 225      |
| LFP25.6-100 | 25.6                | 100                   | 500                  | 186     | 244      |
| LFP25.6-150 | 25.6                | 150                   | 522                  | 268     | 225      |
| LFP25.6-200 | 25.6                | 200                   | 522                  | 268     | 225      |



# Parking Air Conditioner LiFePO<sub>4</sub> Battery

驻车空调磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT



抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



温度监控  
TEMPERATURE  
MONITORING



# Two-Wheeled Vehicle & Electric LiFePO<sub>4</sub> Battery

两轮车&电动摩托车磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT



抗静电  
ANTI STATIC  
ELECTRICITY



隔阻燃  
FLAME  
RETARDANT



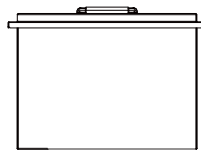
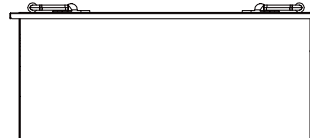
温度监控  
TEMPERATURE  
MONITORING

## System Parameter 系统参数

FC IEC CE

### 产品要点/Product essentials

- 更长的电池寿命, 在DOD为80%时, 寿命为6000个循环, 是铅酸电池的15倍。  
Longer battery life, at 80% DOD, the life is 6000 cycles, 15 times that of lead-acid batteries.
- 更好的安全性, 温和温暖, 无爆炸、火灾或泄漏。  
Better safety, gentle warmth, no explosion, fire or leakage.
- 重量更轻, 与铅酸电池相比, 重量轻1/2~1/4。  
Lighter weight, compared with lead-acid batteries, 1/2~1/4 lighter weight.
- 无记忆效应, 无结晶充放不影响容量。  
No memory effect, no crystallization, charging and discharging does not affect the capacity.
- 不需要更换铅酸蓄电池充电平台系统。  
No need to replace the lead-acid battery charging platform system.
- 稳定的放电和充电性能。  
Stable discharge and charging performance.
- 快速充电, 充满电约1~2小时。  
Fast charging, fully charged in about 1~2 hours.
- 低自放电<3%/月。  
Low self-discharge <3%/month.



### 驻车空调锂电池/Parking air conditioner LiFePO<sub>4</sub> Battery

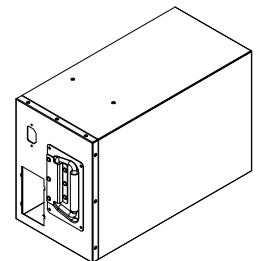
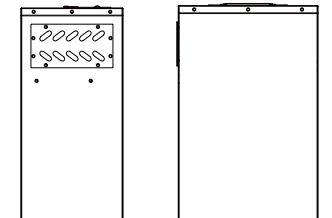
| 充电模式/Charging mode                         | 车充、AC充电、太阳能充电/Car charger, AC charger, solar charger |             |             |      |             |        |
|--------------------------------------------|------------------------------------------------------|-------------|-------------|------|-------------|--------|
| 电池容量/Battery capacity                      | 2.5kWh                                               | 3kWh        | 4.5kWh      | 5kWh | 6.4kWh      | 7.6kWh |
| 标称电压/Nominal voltage                       | 25.6V                                                |             |             |      |             |        |
| 充电电压/Charging mode                         | 28.6V-29.2V                                          |             |             |      |             |        |
| 充电截止电压/Charging cut-off voltage            | 29.2v                                                |             |             |      |             |        |
| 放电持续电流/Discharge continuous current        | 200A                                                 |             |             |      |             |        |
| 启动电流CCA/Starting current CCA               | 800A(5s)                                             |             |             |      |             |        |
| 工作高温保护/Working high temperature protection | 75°C                                                 |             |             |      |             |        |
| 蓝牙功能/Bluetooth function                    | YES                                                  |             |             |      |             |        |
| 应急启动功能/Emergency start function            | YES                                                  |             |             |      |             |        |
| 小程序APP/Mobile App                          | YES                                                  |             |             |      |             |        |
| 产品尺寸/Product size(mm)                      | 525x269x220                                          | 400x330x200 | 480x450x210 |      | 500x260x400 |        |
| 产品重量/Product weight(kg)                    | 23.1                                                 | 27.8        | 41.6        | 46.2 | 59.2        | 70.3   |

## System Parameter 系统参数

FC IEC CE

### 产品要点/Product essentials

- 独立的充电和放电保护, 防止电池过度充电和过度放电, 延长电池寿命。  
Independent charging and discharging protection to prevent overcharging and over discharging of the battery, prolonging battery life.
- 温度范围宽, 从-20°C 到 55°C, 可在所有气候条件下稳定运行。  
Wide temperature range from -20°C to 55°C for stable operation in all climatic conditions.
- 可选组件: LCD 显示屏、遥控开关、蓝牙模块、加热器。  
Optional components: LCD display, remote control switch, Bluetooth module, heater.
- 本地开/关按钮和 SOC、运行、警报 LED 指示灯。  
Local On/Off button and SOC, Run, Alarm LED indicators.
- IP65 防水设计, 适合户外应用。  
IP65 waterproof design for outdoor applications.
- 可选配GPS卫星定位模块, 实现后台数据实时监测功能, 并支持软件远程更新服务。  
Optional GPS module enables real-time backend monitoring and remote auto-updates via communication software.



### 应用范围/Application

两轮车/Two-Wheeled Vehicle

电动摩托车/Electric Motorcycle

### 两轮车&电动摩托车磷酸铁锂电池/Two-Wheeled Vehicle & Electric Motorcycle LiFePO<sub>4</sub> Battery

| 型号<br>Model | 电压(伏特)<br>Voltage (V) | 容量(安时)<br>Capacity(Ah) | 尺寸/Dimension(毫米/MM) |     |     | 净重量<br>Weight<br>(kg) | 保护板电流<br>Protection<br>board current(A) | 适用电机功率范围<br>Applicable<br>motor power range |
|-------------|-----------------------|------------------------|---------------------|-----|-----|-----------------------|-----------------------------------------|---------------------------------------------|
|             |                       |                        | 长/L                 | 宽/W | 高/H |                       |                                         |                                             |
| 48V45Ah     | 48                    | 45                     | 180                 | 170 | 320 | 17.5                  | 50A                                     | 1200W                                       |
| 51.2V45Ah   | 51.2                  | 45                     | 180                 | 170 | 320 | 18.7                  | 50A                                     | 1200W                                       |
| 64V30Ah     | 64                    | 30                     | 180                 | 170 | 320 | 15.2                  | 40A                                     | 1000W                                       |
| 64V45Ah     | 64                    | 45                     | 235                 | 175 | 320 | 22.6                  | 50A                                     | 1500W                                       |
| 64V50Ah     | 64                    | 50                     | 415                 | 236 | 175 | 25.8                  | 80A                                     | 2000W                                       |
| 64V72Ah     | 64                    | 72                     | 406                 | 282 | 225 | 31.8                  | 100A                                    | 3000W                                       |
| 64V90Ah     | 64                    | 90                     | 545                 | 345 | 210 | 43.8                  | 120A                                    | 3500W                                       |
| 64V105Ah    | 64                    | 105                    | 545                 | 325 | 210 | 53                    | 120A                                    | 3500W                                       |
| 64V142Ah    | 64                    | 142                    | 560                 | 340 | 265 | 66                    | 150A                                    | 5000W                                       |
| 64V180Ah    | 64                    | 180                    | 700                 | 345 | 270 | 96                    | 200A                                    | 6000W                                       |
| 76.8V30Ah   | 76.8                  | 30                     | 215                 | 170 | 320 | 18.1                  | 40A                                     | 1000W                                       |
| 76.8V45Ah   | 76.8                  | 45                     | 263                 | 175 | 320 | 26.7                  | 50A                                     | 1500W                                       |
| 76.8V50Ah   | 76.8                  | 50                     | 455                 | 236 | 175 | 29.8                  | 80A                                     | 2000W                                       |
| 76.8V72Ah   | 76.8                  | 72                     | 406                 | 282 | 225 | 36.8                  | 100A                                    | 3000W                                       |
| 76.8V90Ah   | 76.8                  | 90                     | 545                 | 345 | 210 | 51.3                  | 120A                                    | 3500W                                       |
| 76.8V105Ah  | 76.8                  | 105                    | 545                 | 325 | 210 | 59                    | 120A                                    | 3500W                                       |
| 76.8V142Ah  | 76.8                  | 142                    | 560                 | 340 | 265 | 77                    | 200A                                    | 5000W                                       |
| 76.8V180Ah  | 76.8                  | 180                    | 700                 | 345 | 270 | 106                   | 200A                                    | 6000W                                       |

## Tricycle & Four-Wheeled Vehicle LiFePO<sub>4</sub> Battery

三轮车&四轮车磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT

抗静电  
ANTI STATIC  
ELECTRICITY

隔阻燃  
FLAME  
RETARDANT

温度监控  
TEMPERATURE  
MONITORING

## Forklift LiFePO<sub>4</sub> Battery

叉车磷酸铁锂电池



防短路  
ANTI SHORT-CIRCUIT

抗静电  
ANTI STATIC  
ELECTRICITY

隔阻燃  
FLAME  
RETARDANT

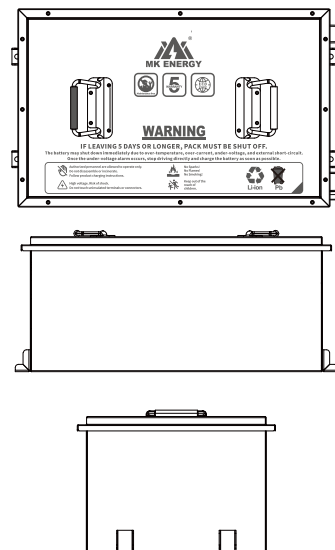
温度监控  
TEMPERATURE  
MONITORING

### System Parameter 系统参数

FC IEC CE

#### 产品要点/Product essentials

- 独立的充电和放电保护, 防止电池过度充电和过度放电, 延长电池寿命。  
Independent charging and discharging protection to prevent overcharging and over discharging of the battery, prolonging battery life.
- 温度范围宽, 从 -20°C 到 55°C, 可在所有气候条件下稳定运行。  
Wide temperature range from -20°C to 55°C for stable operation in all climatic conditions.
- 可选组件: LCD 显示屏、遥控开关、蓝牙模块、加热器。  
Optional components: LCD display, remote control switch, Bluetooth module, heater.
- 本地开/关按钮和 SOC、运行、警报 LED 指示灯。  
Local On/Off button and SOC, Run, Alarm LED indicators.
- IP65 防水设计, 适合户外应用。  
IP65 waterproof design for outdoor applications.
- 可选配GPS卫星定位模块, 实现后台数据实时监测功能, 并支持软件远程更新服务。  
Optional GPS module enables real-time backend monitoring and remote auto-updates via communication software.



#### 应用范围/Application

三轮车/Three-wheeled vehicle

四轮车/Four-wheeled vehicle

高尔夫球车/Golf cart

#### 三轮车&四轮车磷酸铁锂电池/Tricycle & Four-Wheeled Vehicle LiFePO<sub>4</sub> Battery

| 型号<br>Model | 电压 (伏特)<br>Voltage (V) | 容量 (安时)<br>Capacity (Ah) | 尺寸/Dimension (毫米/MM) |     |     |
|-------------|------------------------|--------------------------|----------------------|-----|-----|
|             |                        |                          | 长/L                  | 宽/W | 高/H |
| 38.4V100Ah  | 38.4                   | 100                      | 385                  | 338 | 245 |
| 51.2V100Ah  | 51.2                   | 100                      | 490                  | 338 | 245 |
| 51.2V105Ah  | 51.2                   | 105                      | 540                  | 330 | 225 |
| 51.2V206Ah  | 51.2                   | 206                      | 1040                 | 185 | 230 |
| 73.6V20Ah   | 73.6                   | 20                       | 320                  | 200 | 180 |
| 73.6V30Ah   | 73.6                   | 30                       | 360                  | 230 | 170 |
| 76.8V100Ah  | 76.8                   | 100                      | 740                  | 338 | 245 |
| 76.8V105Ah  | 76.8                   | 105                      | 800                  | 360 | 175 |

### System Parameter 系统参数

FC IEC CE

#### Technology: Lithium Iron Phosphate (LiFePO<sub>4</sub>)

产品技术: 磷酸铁锂(LiFePO<sub>4</sub>)

电压 / Voltage: 24V - 36V - 48V - 80V

容量 / Capacity: 100Ah to 840Ah

循环寿命 / Cycle life: ≥ 6000 times

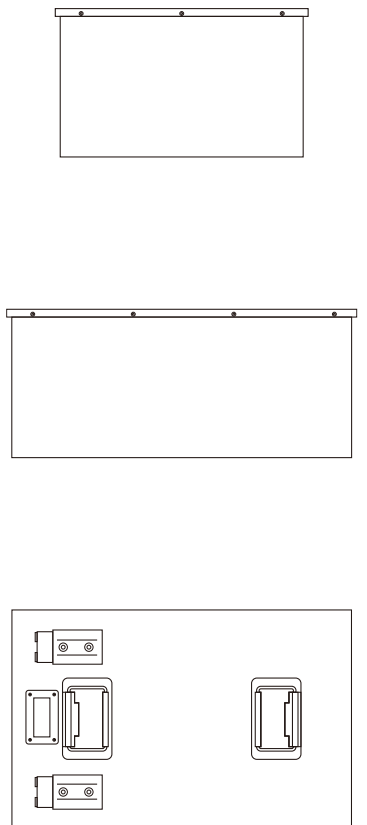
工作温度 / Operating temp: -20°C ~ 60°C

#### 应用范围/Application

叉车 / Forklift

#### 叉车磷酸铁锂电池/Forklift LiFePO<sub>4</sub> Battery

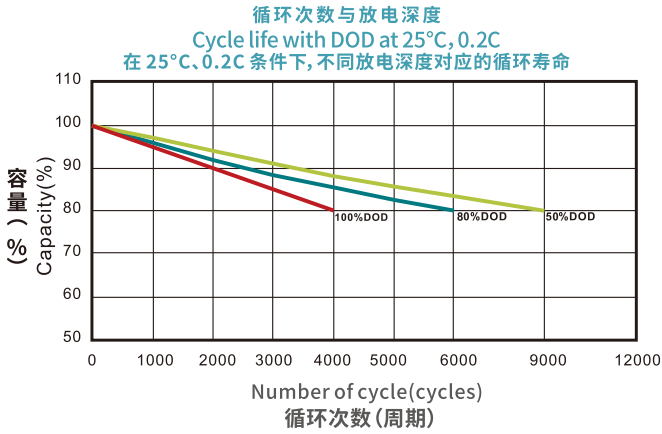
| 电压 (伏特)<br>Voltage (V) | 等效铅酸<br>Lead Acid<br>Equivalent | 系列号<br>Series<br>Number | 容量<br>Capacity |       | 尺寸<br>Dimension<br>(长*宽*高/L*W*H) |                  | 重量<br>Weight |       |
|------------------------|---------------------------------|-------------------------|----------------|-------|----------------------------------|------------------|--------------|-------|
|                        |                                 |                         | 瓦时/Wh          | 安时/Ah | 英寸/in                            | 毫米/mm            | 磅/lbs        | 千克/kg |
| 24                     | 12-85-5                         | B-LFP<br>24-100         | 2560           | 100   | 24.6x<br>8.1x24.7                | 624x<br>207x627  | 467          | 212   |
|                        | 12-85-13                        | B-LFP<br>24-230         | 5957           | 230   | 24.6x<br>11.2x24.7               | 624x<br>284x627  | 635          | 288   |
|                        | 12-125-13                       | B-LFP<br>24-300         | 7680           | 300   | 24.6x<br>11.2x24.7               | 624x<br>284x627  | 635          | 288   |
|                        | 12-125-15                       | B-LFP<br>24-560         | 14336          | 560   | 24.6x<br>16.9x24.7               | 624x<br>428x627  | 959          | 435   |
|                        | 12-125-17                       | B-LFP<br>24-675         | 17280          | 675   | 24.6x<br>13.5x24.7               | 965x<br>343x777  | 1624         | 727   |
|                        | 12-125-11                       | B-LFP<br>36-300         | 11520          | 300   | 24.6x<br>13.6x24.7               | 960x<br>345x777  | 1640         | 744   |
| 36                     | 12-125-13                       | B-LFP<br>36-460         | 17664          | 460   | 24.6x<br>13.3x24.7               | 965x<br>337x775  | 1649         | 748   |
|                        | 12-125-15                       | B-LFP<br>36-560         | 21504          | 560   | 24.6x<br>18.1x24.7               | 978x<br>461x772  | 2597         | 1178  |
|                        | 12-125-17                       | B-LFP<br>36-615         | 23616          | 615   | 24.6x<br>27.1x24.7               | 978x<br>689x575  | 2002         | 908   |
|                        | 12-125-13                       | B-LFP<br>36-690         | 26496          | 690   | 24.6x<br>20.2x24.7               | 973x<br>512x775  | 2597         | 1178  |
|                        | 24-125-13                       | B-LFP<br>48-300         | 15360          | 300   | 32.7x<br>20.6x24.7               | 830x<br>522x627  | 1561         | 708   |
|                        | 24-85-17                        | B-LFP<br>48-460         | 23552          | 460   | 32.7x<br>20.6x24.7               | 830x<br>522x627  | 1561         | 708   |
| 48                     | 24-85-19                        | B-LFP<br>48-540         | 27648          | 540   | 32.7x<br>24.8x24.7               | 830x<br>630x627  | 1887         | 856   |
|                        | 40-125-11                       | B-LFP<br>80-280         | 23296          | 280   | 40.4x<br>22.2x24.7               | 1026x<br>564x627 | 2127         | 965   |
|                        |                                 |                         |                |       |                                  |                  |              |       |



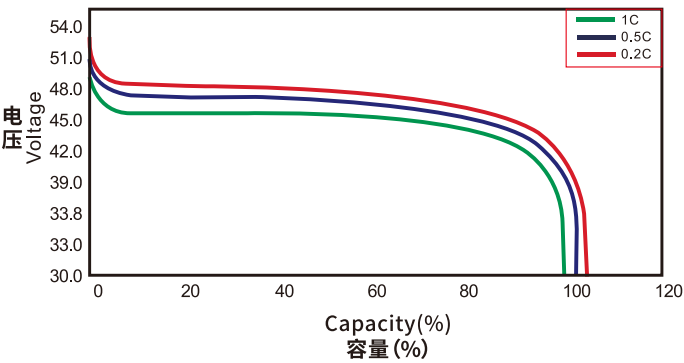
# Performance Diagrams

## 性能图表

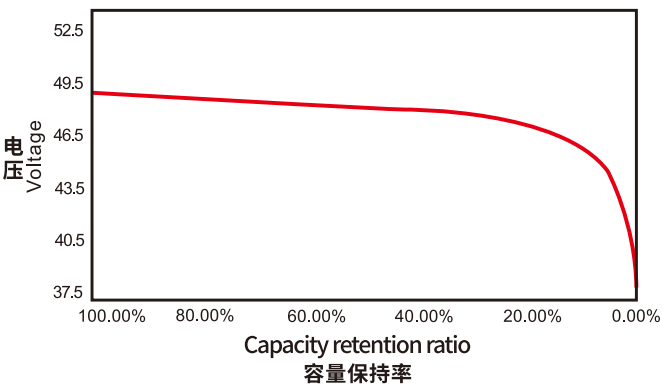
Cycle Life Vs. DOD



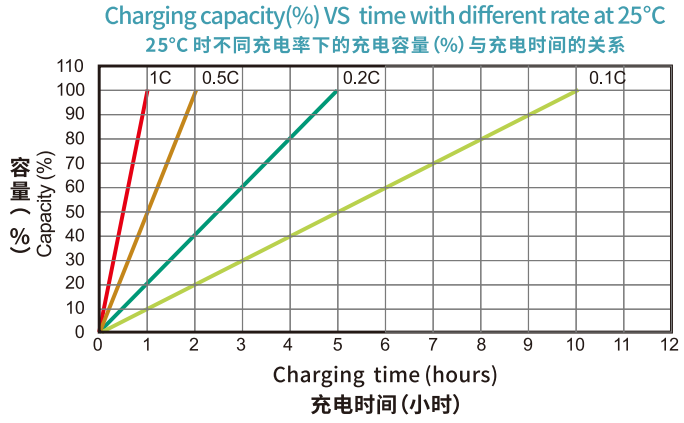
Discharge Performance at R.T.  
正常温度下的放电性能



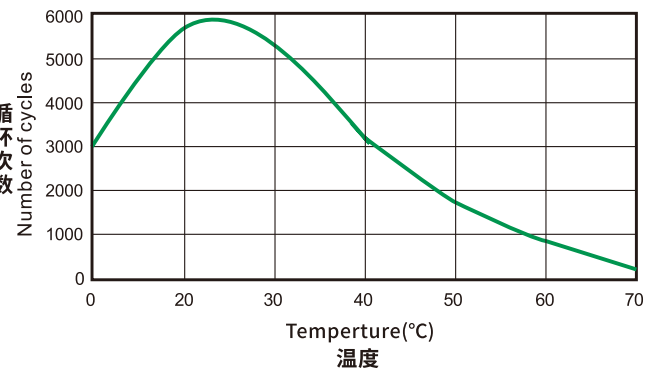
Battery Capacity (C) Vs. Open Circuit Voltage (OCV)  
电池容量 (C) 与开路电压 (OCV) 的关系  
SOC Vs OCV



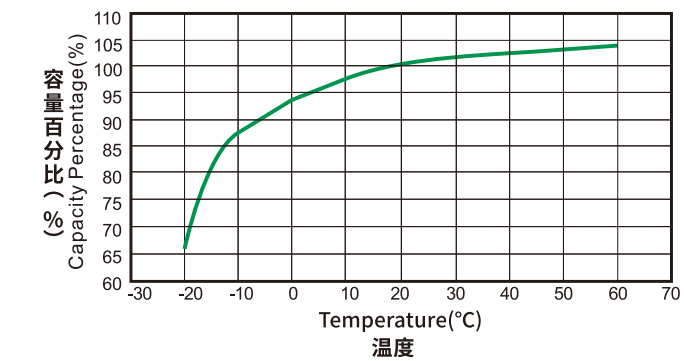
Battery Capacity Vs. Charging Time  
电池容量与充电时间



Cycle Life in Relation to Temperature  
循环寿命与温度的关系



Temperature Effects on Capacity  
温度对容量的影响



Overload protection  
过载保护



Temperature protection  
温度保护



Short circuit protection  
短路保护



Battery protection  
电池保护



Overcharge protection  
过充保护



Overdischarge protection  
过放电保护



Over current protection  
过电流保护



Over voltage protection  
过压保护