

## Faraday<sup>PRO</sup> - Bluetooth 12V 100AH LiFePO<sub>4</sub> Battery

Built in LCD Display

### ELECTRICAL SPECIFICATION

|                        |                |
|------------------------|----------------|
| Nominal Voltage        | 12V (12.8V)    |
| Nominal Capacity       | 100AH          |
| Capacity @20A          | 5HR            |
| Energy                 | 1280Wh         |
| Resistance             | ≤20m Ω         |
| Efficiency             | 99%            |
| Self-Discharge         | < 3% per month |
| Max. Modules in Series | -              |

### DISCHARGE SPECIFICATION

|                              |                 |
|------------------------------|-----------------|
| Recommended Cont. Discharge  | 50A-100A        |
| Max. Cont. Discharge Current | 100A            |
| Peak Discharge Current       | 200A(3s)        |
| BMS Discharge Current        | 300A±100A(10mS) |
| Recommend Cut-off voltage    | 9.6V            |
| BMS Discharge Cut-off        | 9.2V            |
| Short Circuit Protection     | 200-600 μs      |

### CHARGE SPECIFICATION

|                                |                |
|--------------------------------|----------------|
| Recommended Charge Current     | 20-50A         |
| Max. Charge Current            | 100A           |
| Peak Charge Current            | 200A(3s)       |
| BMS Charge Voltage Cut-off     | 14.6V (1±0.2S) |
| Reconnect Voltage              | 14.2V-14.6V    |
| Balancing Current              | 2A             |
| Balancing Voltage              | 3.4V           |
| Charge Current (-20 to -10 °C) | ≤0.05 C        |

### FEATURES & BENEFITS

- HIGH CYCLE LIFE: >3500 times @ 85%DOD for effectively lower cost of ownership
- BATTERY PACK BUILT-IN BMS Protection: Battery Management System is incorporated to protect battery from OVER CHARGING, OVER DISCHARGING, SHORT CIRCUIT
- LIGHT WEIGHT: Dry power lithium batteries have higher energy density, Wh/kg also being up to 1/3 of SLA battery
- WIDE OPERATING TEMPERATURE RANGE: Suitable for users in a wider range of application where ambient temperature is unusually high: up to +60°C
- STEADY OUTPUT VOLTAGE, VIBRATION & SHOCK RESISTANT, NO MEMORY EFFECT, PRESSURE RESISTANT CELLS



### MECHANICAL SPECIFICATION

|                      |               |
|----------------------|---------------|
| Dimensions (L*W*H)   | 330*172*217mm |
| Weight               | 12KG±0.5KG    |
| Terminal Type        | Screw Stud    |
| Case Material        | ABS           |
| Enclosure Protection | IP65          |
| Cell Type: Prismatic | 4S1P          |
| Total Cell           | 4 PIECES      |

### TEMPERATURE SPECIFICATION

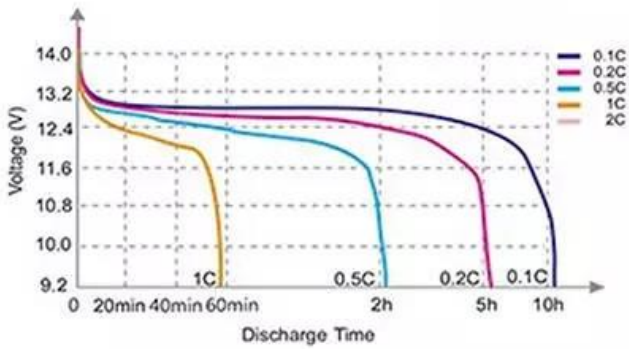
|                       |                |
|-----------------------|----------------|
| Discharge Temperature | -20°C to 60 °C |
| Charge Temperature    | 0 °C to 45 °C  |
| Storage Temperature   | -20°C to 40 °C |
| Peak High Temperature | 80 °C          |
| Reconnect Temperature | 50 °C          |

### OTHER CUSTOMISED SERVICES

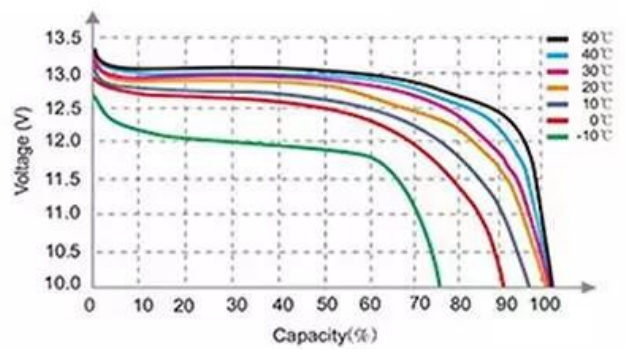
SMART FUNCTION: RS485/RS232/CAN/BLUETOOTH  
CHARGE/DISCHARGE CURRENT, BATTERY SIZE, OEM

**PERFORMANCE CHARACTERISTIC**

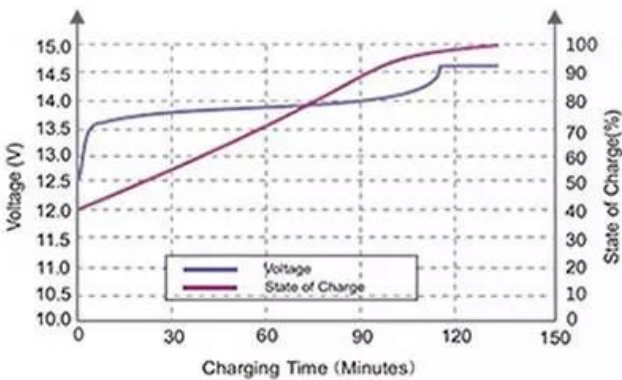
**Different Rate Discharge Curve (25°C)**



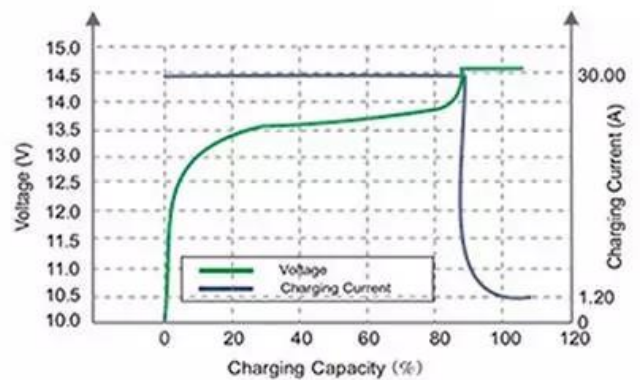
**Different Temperature Discharge Curve(0.5°C)**



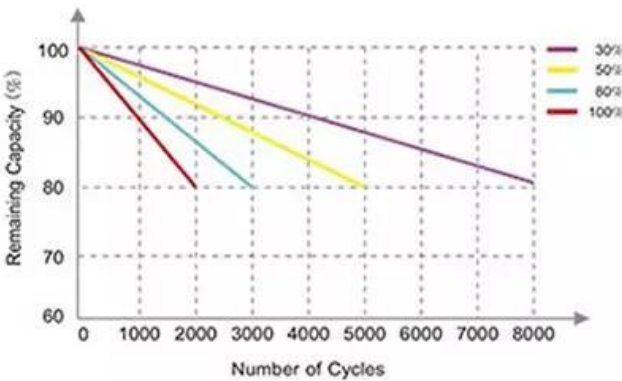
**State of Charge Curve (0.5°C, 25°C)**



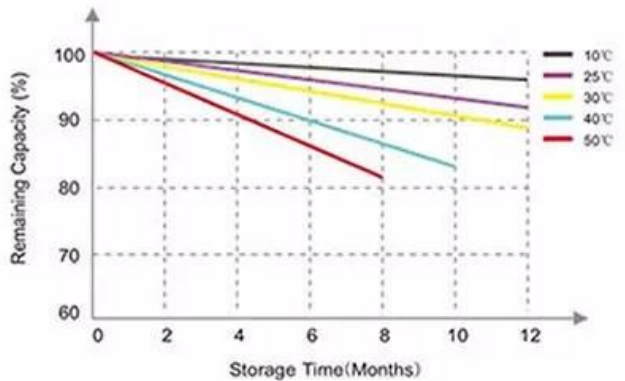
**Charging Characteristics(0.5°C, 25°C)**



**Different DOD Discharge Cycle Life Curve (15°C)**



**Different Temperature Self Discharge Curve**



### SUITABLE APPLICATIONS

- Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries.
- LiFePO<sub>4</sub> in 4S=12.8V and 8S=25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types
- Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications

### CAUTIONS

- Do NOT expose the battery to water
- Do NOT expose the battery to fire & high temperature
- Do NOT short circuit, crush or disassemble
- Only use LiFePO<sub>4</sub> charger
- Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.

### BLUETOOTH APP

BW-BLE: The display page is as follow

- The data in the figure are just examples and not real data, for reference only
- Each battery has a corresponding Bluetooth number. For example: DL-CA-12-100. Find the code and click it to connect directly

### Apple iOS



Android

