

# TAB E.Leisure premium

Lithium Iron Phosphate Battery

HD12.8-200

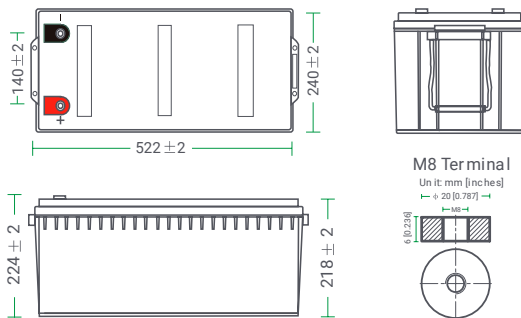
12.8V | 200Ah | 2560Wh

## Features of LiFePO4 Battery

- Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range:** -20°C~ 60°C.
- Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.



## Physical Dimension



## Application



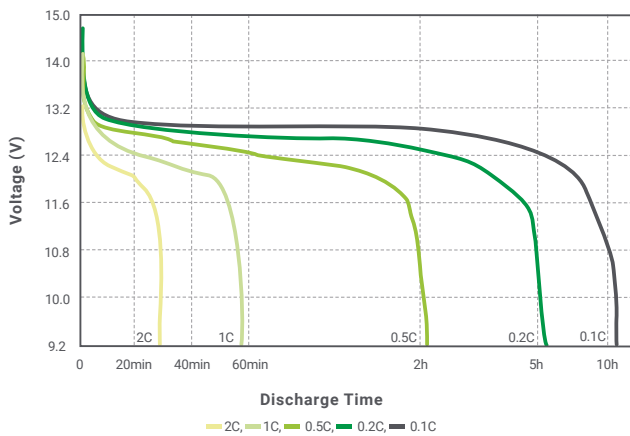
- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

## Specification

|                            |                                            |                                                          |
|----------------------------|--------------------------------------------|----------------------------------------------------------|
| Electrical Characteristics | Nominal Voltage                            | 12.8V                                                    |
|                            | Nominal Capacity                           | 200Ah (C <sub>5</sub> , 25°C)                            |
|                            | Energy                                     | 2560 Wh                                                  |
|                            | Internal Resistance                        | ≤60mΩ                                                    |
|                            | Cycle Life                                 | >4000 cycles                                             |
|                            | Months Self Discharge                      | <3%                                                      |
|                            | Efficiency of Charge                       | 100% @0.5C                                               |
|                            | Efficiency of Discharge                    | 96~99% @1C                                               |
| Standard Charge            | Charge Voltage                             | 14.6V±0.2V                                               |
|                            | Charge Mode                                | 0.2C to 14.6V, then 14.6V charge current to 0.02C(CC/CV) |
|                            | Charger Current                            | 60A                                                      |
|                            | Max. Charge Current                        | 120A                                                     |
|                            | Charge Cut-off Voltage                     | 15.6V±0.2V                                               |
| Standard Discharge         | Continuous Current                         | 120A                                                     |
|                            | Max. Pulse Current                         | 180A(<3s)                                                |
|                            | Discharge Cut-off Voltage                  | 10V                                                      |
| Environmental              | Charge Temperature                         | 0°C to 45°C (32F to 113F) @60±25% Relative Humidity      |
|                            | Discharge Temperature                      | -20°C to 60°C (-22F to 140F) @60±25% Relative Humidity   |
|                            | Storage Temperature                        | -0°C to 40°C (-32F to 104F) @60±25% Relative Humidity    |
|                            | Water Dust Resistance                      | IP56                                                     |
| Mechanical                 | Cell & Method                              | 26650 4S64P                                              |
|                            | Plastic Case                               | ABS                                                      |
|                            | Dimensions (mm)                            | 522*240*224 mm                                           |
|                            | Weight (kg)                                | 23,5 kg                                                  |
|                            | Terminal                                   | M8                                                       |
| Features                   | Bluetooth / RS485 / RS232 / SMBus / CANBus |                                                          |
|                            | SOC LED / LCD Indicator                    |                                                          |

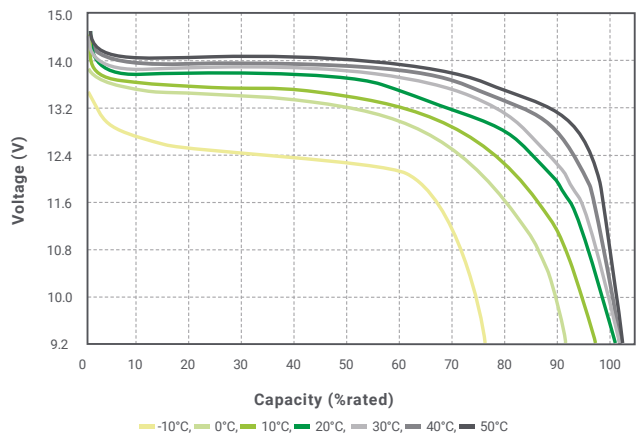
## Different Rate Discharge Curve

Different Rate Discharge Curve @ 25°C



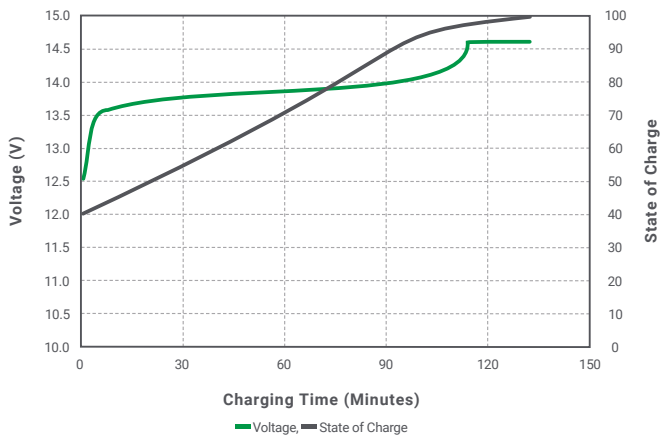
## Different Temperature Discharge Curve

Different Temperature Discharge Curve @ 0.5



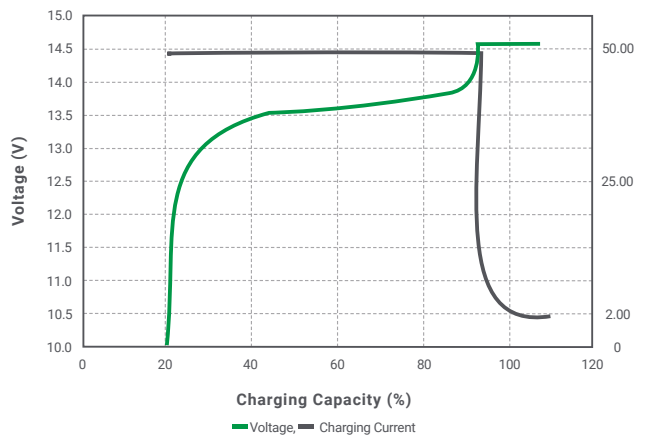
## Characteristics Curve

State of Charge Curve @0.5C 25°C



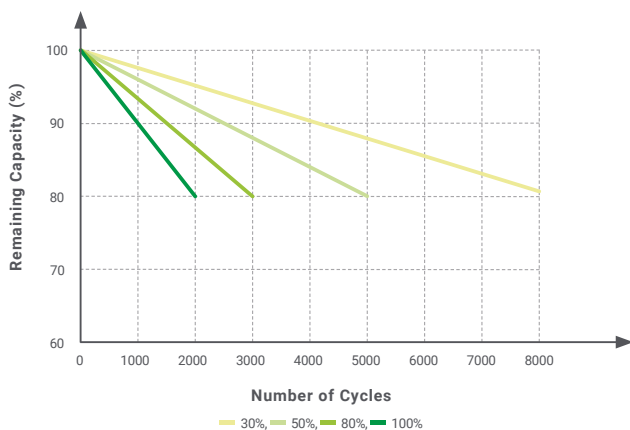
## Characteristics Curve

Charging Characteristics @0.5C 25°C



## Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



## Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

