

LFP-12.8-200

Lithium iron phosphate battery





Characteristics

| Characteristi | CS | |
|--|---------------|--|
| Electrical | | |
| Nominal voltage | | 12.8V |
| Nominal capacity at 5 hours rate (25°C) | | 200Ah |
| Energy | | 2560Wh |
| Charge Efficiency at 0.2C (25°C) | | 99.5% |
| Discharge Efficiency at 1C (25°C) | | 96-99% |
| Approx. internal resistance (25°C) | | ≤100.0 mΩ |
| Cycle life / 0.2C 100% D.O.D | | >3000 cycles |
| Capacity affected by temperature | 40°C | 101% |
| | 25°C | 100% |
| | 0°C | 90% |
| | -10°C | 75% |
| Mechanical | | 7070 |
| Dimensions | Length | 502±2mm (20.47inch) |
| | Width | 186±2mm (10.59inch) |
| | Height | 240±2mm (8.66inch) |
| | Total height | 243±2mm (8.82inch) |
| Terminal type | Total Height | T16 |
| Torque | | 2.3±2.5N.m |
| Weight | | 21.50kg (60.63lbs)±4% |
| Water & Dust resistance | | IP65 |
| Battery container ABS UL94-HB | | V-0 optional |
| Cell strings | | 4 strings |
| Temperature | | + 3tillig3 |
| Nominal operatin | a temperature | 25°C±3 (77±5°F) |
| Operating temperature range | Discharge | -20°C~60°C (-4°F~140°F) |
| | | 0°C~45°C (32°F~113°F) |
| | Charge | |
| | Storage | 0°C~40°C (32°F~104°F) |
| Charging | -+ 250C | 1/6)/ |
| Charging voltage at 25°C | | 14.6V |
| Standard charge mode (25°C±2°C, <75%RH) | | 0.2CA Constant Current t 14.6V, then Constant Volt- age 14.6V until the curren drops to 0.02CA. Rest 30 minutes, before use. |
| Nominal charging current | | 40A |
| Maximum charging current | | 100A |
| Charging cut-off voltage | | 14.6V |
| Discharging | | |
| Continuous discharge current | | 200A |
| Maximum pulse discharge current (<100ms) | | 650A |
| Discharge cut-off voltage | | 11.2V |
| Self discharge rate | e (25°C) | ≤3%/month |
| Comunication 8 | & connection | |
| Communication protocol (optional) | | RS485/SmBus/RS232 |
| SOC (optional) | | LED/Bluetooth |
| Maximum modules in paralel or series | | 1 string 1 parallel |

Overview

Lithium-Iron Phosphate batteries offer superb improvement in characteristics compared to lead-acid technology. Due to the extreme cycle and cal-endar life, LiFePO4 batteries are an excellent long-term investment for your applications. Powerful, lightweight, safe, and smart, the Lithium-Iron Phosphate batteries are the future of the energy storage you can have right now.

SERIES

Features

Longer cycle life - Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.

More capacity - Provides up to 100% of usable energy. **Lightweight** - 60% lighter than lead-acid batteries.

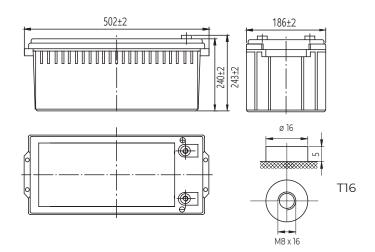
High discharge rate - Ability to fully discharge the battery at a high rate of discharge.

Fast charging - Charges much faster than conventional sealed lead-acid batteries.

Long cycle life - More than 3000 cycles at 100% depth of discharge.

Intelligent BMS - The battery management system monitors and adapts to battery conditions to maximize performance and safety.

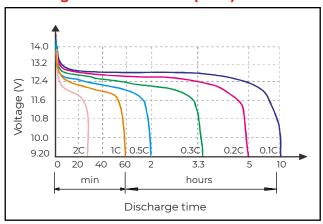
Dimensions & Terminal Type (mm)



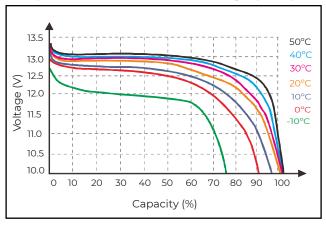


SERIES

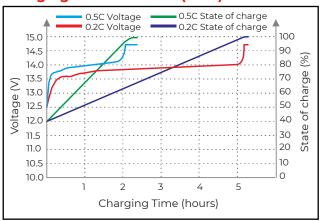
Discharge characteristics (25°C)



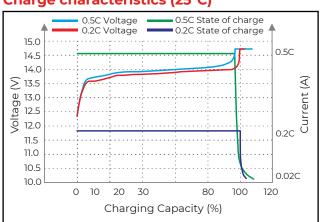
Temperature effects on discharge (0.5C)



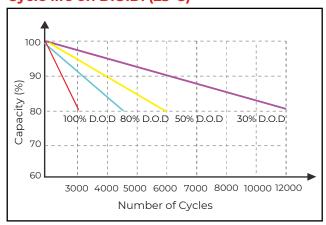
Charging Time on S.O.C. (25°C)



Charge characteristics (25°C)



Cycle life on D.O.D. (25°C)



D.O.D. - depth of discharge S.O.C. - state of charge

Self discharge characteristics

