



Super B Lithium batteries to perform better



SB12V100E-ZC

Lightweight Lithium Ion Traction battery, 46.3 lb / 21 kg.

This newly developed battery is designed to replace the much heavier 250 to 320 Ah lead-acid battery.

Features







- Traction battery
- Lithium Iron Phosphate (LiFePO₄)
- Most safe lithium technology today
- Superior abuse tolerance
- Integrated BMS (Battery Management System)
- Glass fibre reinforced plastic (GRFP) Casing, Aluminium / PE sandwich side panels
- 2 x 95mm² wire connection per terminal
- Integrated fuse, 32V / 500A
- CANOpen interface for battery monitoring
- Battery monitoring / History Storage
- Adaptive cell balancing
- Serial string equalisation

Performance

- High capacity
- Low weight
- High cycle count
- Low maintenance
- One on One replaceable with AGM/GEL lead acid batteries
- High discharge current, 3C continuous, 5C pulse
- Can be charged with regular AGM charger
- Fast charging, 1C
- Serial string connection up to 1150V DC

Safety

super B batteries are based on Lithium Iron Phosphate technology (LiFePO₄). This Lithium Ion technology used in super B batteries is the safest Lithium Ion technology available today. On top of that our bespoke casing and electronics further increase safety and durability.

-  **Recharges much faster**
-  **Longer service life**
-  **Only 1/3 of the size**
-  **Weighs less**
-  **Low self discharge**
-  **High temperature starting**

Applications for SB12V100E-ZC

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Mining

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Lift Trucks

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Remote Power

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UPS

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Military

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Utility batteries

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Solar

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Industrial

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Telecom

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Super B Lithium batteries to perform better

Marine

Technical specifications SB12V100E-ZC

| | |
|---|-----------------|
| SKU/EAN13 | 8718531360662 |
| Battery Designation | 4IFP227/415/315 |
| Height (mm) | 313,00 / 314,00 |
| Diameter (mm) | NA |
| Width (mm) | 413,50 / 414,50 |
| Thickness (mm) | 225,00 / 226,00 |
| Nominal voltage (V) | 13,2V |
| Charge method | CCCV |
| End of charge voltage (V) | 15,4V |
| End of charge voltage (V) for endurance (cycle life) | 14,6V |
| Charge current (A) | 100A (1C) |
| Charge current (A) for endurance (cycle life) | 33A (C/3) |
| End-of-discharge voltage (V) | 8V |
| End-of-discharge voltage (V) for endurance (cycle life) | 10V |
| Discharge current (A) | 300A (3C) |
| Discharge current (A) for endurance (cycle life) | 33A (C/3) |
| Discharge pulse current (A) (10 seconds) | 800A (8C) |
| Discharge pulse current (A) (60 second) | 500A (5C) |
| Discharge performance at 20 °C (rated capacity) | 100Ah / 1320Wh |
| Discharge performance at -20 °C (capacity) | 65Ah / 858Wh |
| High rate discharge performance at 20 °C (capacity) | 90Ah / 1188Wh |
| EqPb (Equals Lead acid battery) | 200Ah |
| Weight | 21kg |
| Operating temperature range (Charge) | 0°C to 45°C |

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| | |
|---|----------------|
| Operating temperature range (Discharge) | -20°C to +60°C |
|---|----------------|

| | |
|---------------------------|----------------|
| Storage temperature range | -20°C to +60°C |
|---------------------------|----------------|

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Performance of the SB12V100E-ZC

