



**ALithiumWerksProduct**

# BE IN CHARGE

## DATASHEET SUPER B 160E-ZC

### SB12V160E-ZC

The SB12V160E-ZC is a Lithium Iron Phosphate rechargeable battery with a rated capacity of at least 160Ah. The unique combination of state-of-the art technology and smart software makes this lithium battery a robust, safe and easy to use energy storage solution.

Compared to conventional lead-acid batteries, the SB12V160E-ZC battery offers an enormous weight and space saving. It is very efficient, has extremely high performance and is maintenance free.

### FEATURES

- Traction battery
- Lithium Iron Phosphate (LiFePO4): safe lithium technology
- Integrated BMS (Battery-Management system); external interruption device needed
- Glass fiber reinforced plastic (GRFP) Casing, Aluminum / PE sandwich side panels
- Terminals for 2 x 95mm<sup>2</sup> wire connection per terminal
- Integrated fuse, 72V / 500A
- Wired communication interface: CANopen
- Battery monitoring / History Storage
- Adaptive cell balancing
- Configurable in serial or parallel connection- Output for bi-stable relay / latching relay



### PERFORMANCE



High capacity



Low weight



High cycle count



Low maintenance



Fast Charging



High discharge current, 3C continuous, 5C pulse (10 sec)

### SAFETY

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

### ENVIRONMENT

Super B batteries do not contain lead. The LiFePO4 technology is an environmental-friendly energy storage solution.

## 3-YEAR WARRANTY

Super B's 3-year warranty offers the best peace of mind. It is the benefit of years of continuous engineering improvement and proven experience with all of our batteries in the harshest environments.



## USE

Make sure to always use an external disconnect device when using this battery.

Please take the following advices into account while using the battery.

1. The protection relay absolutely must be in place before any other components may be connected to the Super B battery. Never

connect to the Super B battery directly as this may damage it.

2. For any modifications contact your local dealer.
3. Make sure the state of charge is above 20% during storage at all times and maintain the battery according the manual instructions.
4. Never use a booster on the Super B Battery.

## TECHNICAL SPECIFICATIONS

SKU/EAN13	8718531360570
Battery designation	IEC 61960: 4IFpP85/170/245
Height (mm)	314 (+/-1)
Diameter (mm)	NA
Width (mm)	417 (+/- 1)
Thickness (mm)	227 (+/- 1)
Open circuit voltage	13,2V
Nominal voltage	12,9V
Charge method	CCCV
Charge voltage	14,3...14,6V
Charge current	160A
End of discharge voltage	8V
Discharge current continuous	480A (3C)
Discharge current (10 seconds)	800A (5C)
Weight	26,9kg (+/- 0.250 kg)
Recommended charge temperature range	0°C to +45°C*
Discharge operating temperature range	-10°C to +55°C
Short term storage temperature range	-20°C to +45°C
Long term storage temperature range	-10°C to +20°C

\*Charging below 0 °C only with reduced charge current. This might result in degraded cycle life.