



LiFePO4 Battery

Zeta X Series

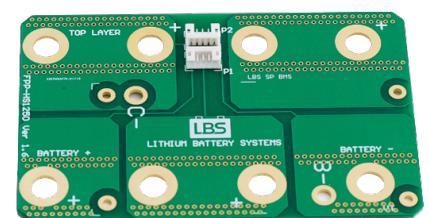
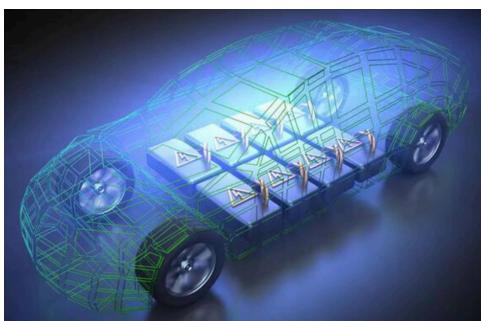
12.8V 400Ah

25.6V 200Ah/400Ah

51.2V 100Ah/200Ah

Reliable • Safe • Flexible

Zeta X series LiFePO4 battery is designed with UL listed battery cells and a very sophisticated automotive grade battery management system (BMS). With unique features, it is one of the most technically advanced lithium battery system on the market. Suitable for applications such as Industrial/ Household/ Commercial/ Land Vehicle/ Solar Energy Storage



Automotive-Grade BMS

We used the same BMS solution as electrical car. And make sure the battery safety and reliable!

A-Grade LiFePO4 Prismatic Cells

We use A-Grade LiFePO4 Prismatic Cells, made with a hard metal outer casing. Built-in pressure safety valve. UL1642 and TUV certified cells ensure long lifespan. Lifecycle up to 3500@80% DOD, 6000@60% DOD.

Custom Built Cell Link Board

Our lithium batteries all use a custom "solid state" cell link Board. Designed, developed and made right here along with our BMS. The cell link board helps keeps the cells "Balanced" and links the cells together.

Key Features

- Heavy Duty Industrial Design
- Parallel up to 10 units
- Auto Recovery After Overcharge Protection
- Automotive-Grade BMS
- Remote LCD Display

Data Sheet

| Model | Zeta X51 | Zeta X52 | Zeta X54 | Zeta X12 | Zeta X14 |
|--|---|------------|------------|--|-----------------|
| Rated Voltage | 12.8V | 25.6V | 51.2V | 25.6V | 51.2V |
| Rated Capacity | 400Ah | 200Ah | 100Ah | 400Ah | 200Ah |
| Rated Energy | 5.12kWh | 5.12kWh | 5.12kWh | 10.24kWh | 10.24kWh |
| Cell Configuration | 4S4P | 8S2P | 16S1P | 8S4P | 16S2P |
| Battery Cell | 3.2V100Ah 16PCS | | | | 3.2V100Ah 32PCS |
| Standard Charge | | | | | |
| Operation Temperature range@charge | 0°C~45°C | 0°C~45°C | 0°C~45°C | 0°C~45°C | 0°C~45°C |
| Rated charge voltage | 13.8V±0.1V | 27.6V±0.2V | 55.2V±0.4V | 27.6V±0.2V | 55.2V±0.4V |
| Max charge voltage | 14.2V±0.1V | 28.4V±0.2V | 56.8V±0.4V | 28.4V±0.2V | 56.8V±0.4V |
| Overcharge protection | 14.6V±0.1V | 29.2V±0.2V | 58.4V±0.4V | 29.2V±0.2V | 58.4V±0.4V |
| Allowed Max charge current | 220A@30S | 110A@30S | 55A@30S | 220A@30S | 110A@30S |
| Peak charge current | 240A@5S | 120A@5S | 60A@5S | 240A@5S | 120A@5S |
| Rated charge current | 200A | 100A | 50A | 200A | 100A |
| Recommend charge current | <200A | <100A | <50A | <200A | <100A |
| Standard Discharge | | | | | |
| Operation temperature range @discharge | -20°C~60°C | -20°C~60°C | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Output Voltage Range | 10~14Vdc | 20~28Vdc | 40~56Vdc | 20~28Vdc | 40~56Vdc |
| Recommend working range | 11.5~13.5Vdc | 23~27Vdc | 46~54Vdc | 23~27Vdc | 46~54Vdc |
| Discharge cut-off voltage | 10V | 20V | 40V | 20V | 40V |
| Allowed Max Discharge current | 440A@30S | 220A@30S | 110A@30S | 440A@30S | 220A@30S |
| Peak discharge current | 480A@5S | 240A@5S | 120A@5S | 480A@5S | 240A@5S |
| Rated discharge current | 400A | 200A | 100A | 400A | 200A |
| Recommend discharge current | <400A | <200A | <100A | <400A | <200A |
| General | | | | | |
| Communication | CAN & RS485 | | | | |
| Storage Temperature | -20°C~35°C (less than 1 month); -10°C~30°C (less than 6 months) | | | | |
| Humidity | 45~75% RH | | | | |
| SOC | 60~75% SOC @storage; 45~55% SOC @Transportation | | | | |
| Dimension (H*W*D) mm | 560*580*170 (unit) 650*650*380 (package) | | | 900*580*170 (unit) 1000*650*380 (package) | |
| Weight (kg) | 48kg (unit) 53kg (package) | | | 100kg (unit) 125kg (package) | |