

# LiFePO4 Battery Systems

[www.lifebatt.co.uk](http://www.lifebatt.co.uk)



## Lithium Iron Phosphate Battery Modules

LiFeBATT Lithium Iron Phosphate battery modules are equipped with advanced management systems to monitor and balance each cell to ensure optimum performance. LiFeBATT batteries are a safe, powerful and reliable energy system; offering a low maintenance, cost effective and environmentally friendly solution.

LiFeBATT Ltd. is Europe's primary supplier of Lithium Iron Phosphate (LiFePO4) battery systems for Industrial Applications. With the release of our second generation cell technology we are able to offer both Energy and Power Type LiFePO4 cells, this combined with our proven cell management, BMS communication and adaptable battery systems ensures that our product meets the ever demanding safety and performance criteria of many different markets.



### Why use LiFeBATT?

- Proven, Dependable Technology
- Integrated BMS
- Flexible Warranty Terms
- Rapid Prototype Development
- Full Engineering & Technical Support
- 1/3 of the weight of Lead Acid
- 10 times the life of Lead Acid
- -26°C to +60°C Temperature Range
- Full bespoke battery systems
- ISO9001 Certification



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# LiFePO4 Battery Technology



The Lithium Iron Phosphate (LiFePO4) modules from LiFeBATT Ltd. benefit from the latest improvements in cells and electronic Battery Management Systems ensuring safety, cycle and calendar life, reliability and cost control.

The cells are adaptable and can be configured to meet a customer's specific voltage and capacity requirements and still communicate with the application/appliance to deliver high current and power. Specifically designed for industrial applications, LiFeBATT's lightweight battery systems are now available fitted to Peli Protector Cases. These tough protector cases allow their battery modules to be completely adaptable and easily portable. Featuring a long life, high reliability and require zero maintenance plus a full battery management system, including cell balance and short circuit protection, they are a truly straight forward replacement for heavy lead acid batteries. Available in 12V, 24V, 36V and 48V variants, with C1 capacities from 8Ah to 90Ah and charge times of less than 1 hour are possible too.

| Lithium Iron Phosphate Battery Modules |                    |                                |            |                  |                          |                        |                      |             |
|--|--------------------|--------------------------------|------------|------------------|--------------------------|------------------------|----------------------|-------------|
| Battery Module                         | Nominal Voltage, V | Nominal Capacity, Ah (C/1,25c) | Weight, kg | Dimensions LxWxH | Max. Constant Current, A | 20 Sec Peak Current, A | Environmental Rating | Charge Time |
| 12V 15Ah                               | 13.2               | 15                             | 3.5        | 270 x 246 x 124  | 10                       | 30                     | IP67                 | 2 Hours     |
| 12V 30Ah                               | 13.2               | 30                             | 7.2        | 270 x 246 x 174  | 10                       | 30                     | IP67                 | 3.5 Hours   |
| 12V 45Ah                               | 13.2               | 45                             | 10.4       | 406 x 330 x 174  | 10                       | 30                     | IP67                 | 5 Hours     |
| 12V 60Ah                               | 13.2               | 60                             | 11.9       | 339 x 295 x 152  | 10                       | 30                     | IP67                 | 6.5 Hours   |
| 12V 75Ah                               | 13.2               | 75                             | 16.7       | 430 x 244 x 341  | 20                       | 40                     | IP67                 | 5 Hours     |
| 12V 90Ah                               | 13.2               | 90                             | 23.0       | 500 x 305 x 457  | 10                       | 30                     | IP67                 | 5 Hours     |
| 24V 15Ah                               | 26.4               | 15                             | 6.6        | 270 x 246 x 174  | 10                       | 30                     | IP67                 | 2 Hours     |
| 24V 30Ah                               | 26.4               | 30                             | 14.1       | 339 x 295 x 152  | 10                       | 30                     | IP67                 | 3.5 Hours   |
| 24V 45Ah                               | 26.4               | 45                             | 23.0       | 456 x 228 x 408  | 30                       | 60                     | IP67                 | 3 Hours     |
| 36V 15Ah                               | 39.4               | 15                             | 10.4       | 406 x 330 x 174  | 10                       | 30                     | IP67                 | 2 Hours     |
| 48V 15Ah                               | 52.8               | 15                             | 11.9       | 339 x 295 x 174  | 10                       | 30                     | IP67                 | 2 Hours     |



< High impact foam provides increased protection for the LiFeBATT cells inside the cases



LiFeBATT's Battery Management System is fully integrated within the battery system to protect and monitor the unit and provide information regarding the systems performance.

- Cell balancing
- Over Voltage Protection
- Low Voltage Protection
- Over Current Protection
- Short Circuit Protection
- High Temperature Protection

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