

# Lithium Iron Phosphate Batteries (LiFePO4)

## Individual Batteries & Custom Battery Assemblies

Leading the way with  
LiFePO4 batteries in the UK



# About Our LiFePO4 Batteries

Euro Energy offer a wide range of LiFePO4 batteries, both in 12.8 and 25.6 Volt options, with a wide range of capacities.

LiFePO4 technology provides a solution to the need for a lightweight, higher capacity battery, normally without the need for major testing and tooling investment. All of our LiFePO4 batteries are fully compliant with UN38.3 testing requirements.

Batteries can take the form of standard 'blocks' as shown, or combined blocks to form custom battery assemblies, each containing a Battery Management System (BMS) to protect against abuse.

The technology is much safer than other lithium chemistries, and has a specific energy between that of Ni-MH and Lithium Ion. Safety is excellent, with it being the battery chemistry of choice for many manufacturers.

## Benefits of LiFePO4 Batteries

### Highest cycle life

Up to 3000 cycles to 60% capacity at 100% depth of discharge (0.5CA). This compares with 500 cycles from Ni-MH and often less from Li-Ion

### Light weight

1/3 weight reduction from Ni-MH, less than half the weight of VRLA

### Excellent temperature range

Operates from -20°C to +60°C, lower temperature storage permissible

### Capable of high rate discharge

10C discharge, limited only by the BMS electronics

### Fast charging

1C charging possible

### Available as a 'drop-in' replacement for Valve Regulated Lead Acid

Batteries available as off-shelf solutions with the same footprints as their lower capacity VRLA counterparts

### Excellent recoverable capacity at high discharge rates

If you discharge at 1C, you'll recover full capacity in Ah. If you discharge VRLA at 1C, this is likely to be as low as 60% of the Ah rating

### Low self discharge

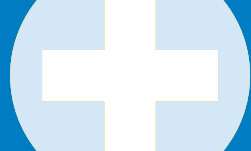
Better than Ni-MH or VRLA, close to the performance of Li-Ion

### Parallel connection possible to produce the highest capacities

Individual batteries can be series or parallel connected to double capacity or voltage as can our custom packs

### Safe for transportation

Although LiFePO4 batteries at over 100Wh fall into the UN Miscellaneous Dangerous Goods Class 9 category, they are inherently safer than other Lithium technologies. It is possible to meet the UN38.3 testing criteria without a Protection Circuit (PCM), although this is normally included in the BMS, the use of which is advisable to maintain cell balancing.



### LiFeP04 3-12

Voltage/Capacity 12.8V/3Ah (38.4Wh)  
Approx. Size (LxWxH) 90 x 70 x 101/106mm  
Approx. Weight 0.60kg  
Terminal Faston 250  
Part Number 04732



### LiFeP04 20-12

Voltage/Capacity 12.8V/20Ah (256Wh)  
Approx. Size (LxWxH) 181 x 77 x 167mm  
Approx. Weight 2.90kg  
Terminal Insert M5  
Part Number 04728



### LiFeP04 5-12

Voltage/Capacity 12.8V/5Ah (64Wh)  
Approx. Size (LxWxH) 91 x 70 x 101/106mm  
Approx. Weight 0.90kg  
Terminal Faston 250  
Part Number 04714



### LiFeP04 33-12

Voltage/Capacity 12.8V/33Ah (422Wh)  
Approx. Size (LxWxH) 195 x 130 x 155/168mm  
Approx. Weight 5.40kg  
Terminal Insert M6  
Part Number 04724



### LiFeP04 7.5-12

Voltage/Capacity 12.8V/7.5Ah (96Wh)  
Approx. Size (LxWxH) 151 x 65 x 94/100mm  
Approx. Weight 1.30kg  
Terminal Faston 250  
Part Number 04734



### LiFeP04 40-12

Voltage/Capacity 12.8V/40Ah (512Wh)  
Approx. Size (LxWxH) 195 x 130 x 168/175mm  
Approx. Weight 6.40kg  
Terminal Insert M6  
Part Number 04731



### LiFeP04 10-12

Voltage/Capacity 12.8V/10Ah (128Wh)  
Approx. Size (LxWxH) 151 x 65 x 94/100mm  
Approx. Weight 1.50kg  
Terminal Faston 250  
Part Number 04726



### LiFeP04 60-12

Voltage/Capacity 12.8V/60Ah (768Wh)  
Approx. Size (LxWxH) 239 x 132 x 205/210mm  
Approx. Weight 9.50kg  
Terminal Insert M6  
Part Number 04711



### LiFeP04 12-12

Voltage/Capacity 12.8V/12Ah (153.6Wh)  
Approx. Size (LxWxH) 151 x 98 x 95/101mm  
Approx. Weight 1.60kg  
Terminal Faston 250  
Part Number 04727



### LiFeP04 80-12

Voltage/Capacity 12.8V/80Ah (1024Wh)  
Approx. Size (LxWxH) 258 x 166 x 206mm  
Approx. Weight 12.30kg  
Terminal Insert M6  
Part Number 04740



### LiFeP04 15-12

Voltage/Capacity 12.8V/15Ah (192Wh)  
Approx. Size (LxWxH) 151 x 98 x 95/101mm  
Approx. Weight 1.90kg  
Terminal Faston 250  
Part Number 04730



### LiFeP04 100-12

Voltage/Capacity 12.8V/100Ah (1280Wh)  
Approx. Size (LxWxH) 395 x 110 x 285mm  
Approx. Weight 14.3kg  
Terminal Insert M6  
Part Number 04741



## LiFeP04 4.5-24

Voltage/Capacity 25.6V/4.5Ah (115.2Wh)  
 Approx. Size (LxWxH) 151 x 65 x 94mm  
 Approx. Weight 1.43kg  
 Terminal Faston 250  
 Part Number 04742



## LiFeP04 20-24

Voltage/Capacity 25.6V/20Ah (512Wh)  
 Approx. Size (LxWxH) 195 x 130 x 155mm  
 Approx. Weight 6.40kg  
 Terminal Insert M7  
 Part Number 04745



## LiFeP04 7-24

Voltage/Capacity 25.6V/7Ah (179.2Wh)  
 Approx. Size (LxWxH) 151 x 98 x 95mm  
 Approx. Weight 1.9kg  
 Terminal Faston 250  
 Part Number 04743



## LiFeP04 30-24

Voltage/Capacity 25.6V/30Ah (768Wh)  
 Approx. Size (LxWxH) 239 x 132 x 205mm  
 Approx. Weight 9.85kg  
 Terminal Insert M7  
 Part Number 04746



## LiFeP04 15-24

Voltage/Capacity 25.6V/15Ah (384Wh)  
 Approx. Size (LxWxH) 195 x 130 x 155mm  
 Approx. Weight 5.00kg  
 Terminal Insert M7  
 Part Number 04744



## LiFeP04 60-24

Voltage/Capacity 25.6V/60Ah (1536Wh)  
 Approx. Size (LxWxH) 436 x 108 x 317mm  
 Approx. Weight 17.00kg  
 Terminal Insert M8  
 Part Number 04747



**Require a battery not listed here?**  
**Please contact our Customer Service Team on**  
**+44 (0) 116 234 0567**  
**or email [info@euroenergy.co.uk](mailto:info@euroenergy.co.uk)**