

# PASSIONATE ABOUT ENERGY

As the UK's lithium battery specialist, here at Eco Tree Lithium we are passionate about offering our customers the correct battery solution for energy, innovation and quality. Sourcing only the best lithium cell that has been technically designed in Europe to provide the best in cell performance and longevity.

Eco Tree Lithium source and distribute advanced lithium batteries for emergency vehicles, military applications, marines, UPS, solar systems, recreational vehicles, sweepers, medical & mobility recreation and industrial applications. We know these applications well and we develop tailored battery solutions for each market sector.

Our Eco Tree Lithium battery will provide you with more than 2000 times of 100% deep discharge. After that the battery will still be at least 70% of the rated capacity. We also offer a full 6 years' manufacturer's warranty against cell defect. We only use Lithium Phosphate (LiFePO<sub>4</sub>) chemistry, which is the safest technology that can be provided. Our accreditation that we offer are CE and UN38.3 to name a few, so you can be sure that safety is paramount.

At Eco Tree Lithium we carry the most suitable sizes, we feel that we can cover most fitment requirements for size, voltage and AH.

So, if you need to power your application, Eco Tree Lithium is the one to fit.

## KEY FEATURES

- ✓ European design & technology
- ✓ Built-in fully automatic Battery Management System (BMS)
- ✓ Explosion proof stainless steel cells - built in thermal fuse
- ✓ Flame resistant ABS case, conforms to UL94-Vo
- ✓ LiFePO<sub>4</sub> cylindrical smart cells using European technology
- ✓ High pressure safety vent (explosion proof)
- ✓ Over voltage and under voltage protection
- ✓ Reverse polarity and short circuit protection
- ✓ Automatic cell balancing (equalisation)
- ✓ Drop fit footprint replaces most Lead Acid, Gel or AGM batteries.
- ✓ ZERO maintenance fit and forget technology
- ✓ 6 year warranty
- ✓ Capacity in AH from 12 – 320 or WH from 154 – 3955

# BENEFITS OF LITHIUM

## ADVANCED TECHNOLOGY

- ✓ Money saving over its lifetime
- ✓ 12 x the number of cycles of Lead/AGM 250 cycles vs 3,000
- ✓ 24 x more total amp hours than Lead/AGM 12,500 vs 300,000
- ✓ 10 x faster charging than Lead/AGM
- ✓ 40-50% lighter than Lead/AGM
- ✓ 6 year warranty - 3x longer than most Lead/AGM
- ✓ LiFePO<sub>4</sub> cylindrical smart cells using European technology
- ✓ Built-in fully automatic Battery Management System (BMS)
- ✓ Simple drop-in replacement for Lead/Gel or AGM batteries
- ✓ Automatic built in cell balancing (Equalisation)
- ✓ Grade A Manufactured Cells for increased strength and better conductivity
- ✓ ZERO maintenance fit and forget technology
- ✓ Ultra-low self-discharge can be left for exceptionally long periods
- ✓ Will not swell (balloon), gas or vent compared to Lead/AGM
- ✓ Can be fitted in any orientation
- ✓ Non-liquid, non-corrosive, non-toxic, brilliant for carbon footprint
- ✓ UN38.3 IP56, 93/66/EEC, UL94-Vo, IMDG safe, can be shipped by air/freight
- ✓ Reverse polarity and short circuit protection
- ✓ Maintains constant voltage throughout discharge, does not drop like lead
- ✓ Selection of 12.8V batteries from 12AH to 320AH

**6 YEAR WARRANTY** ⚡ **BUILT-IN BATTERY MANAGEMENT SYSTEM**



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Helping to save our planet & providing a renewable energy battery solution



# LIFEPO<sub>4</sub> BATTERIES

**LIGHTWEIGHT • LITHIUM IRON • DEEP CYCLE**  
**THE LITHIUM BATTERY SPECIALISTS**














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**6 YEAR WARRANTY** ⚡

# POWER YOUR APPLICATION

We develop tailored battery solutions for each market sector.

At Eco Tree Lithium we have vast experience with an array of different market sectors. From military to recreation to marine, and everything in between. We use this knowledge to tailor specific battery solutions for each market sector, so you can be confident that you'll have the perfect lithium battery solution for your needs.

-  Marine
-  Recreational Vehicles
-  Renewable Energy
-  Floor Cleaning Machines
-  Access Work Platforms
-  Medical/Mobility
-  Electric Vehicles
-  Golf Carts/Trolleys
-  Signalling
-  Solar
-  UPS



6 YEAR WARRANTY

## 12V 12 Amp Hour

Nominal voltage	12.8V
Nominal capacity	12Ah
Energy	154Wh
Charging voltage	14.6V
Max charging current	6 Amp
Max discharge current	12 Amp
Weight approx.	1.55kg
Dimensions	151 x 98 x 101mm



6 YEAR WARRANTY

## 12V 24 Amp Hour

Nominal voltage	12.8V
Nominal capacity	24Ah
Energy	308Wh
Charging voltage	14.6V
Max charging current	12 Amp
Max discharge current	24 Amp
Weight approx.	2.9kg
Dimensions	181 x 77 x 167mm



6 YEAR WARRANTY

## 12V 33 Amp Hour

Nominal voltage	12.8V
Nominal capacity	33Ah
Energy	423Wh
Charging voltage	14.6V
Max charging current	16.5 Amp
Max discharge current	30 Amp
Weight approx.	4.9kg
Dimensions	195 x 130 x 167mm



6 YEAR WARRANTY

## 12V 42 Amp Hour

Nominal voltage	12.8V
Nominal capacity	42Ah
Energy	538Wh
Charging voltage	14.6V
Max charging current	21 Amp
Max discharge current	42 Amp
Weight approx.	5.7kg
Dimensions	197 x 165 x 170mm



6 YEAR WARRANTY

## 12V 100 Amp Hour

Nominal voltage	12.8V
Nominal capacity	100Ah
Energy	1280Wh
Charging voltage	14.6V
Max charging current	50 Amp
Max discharge current	100 Amp
Weight approx.	13.1kg
Dimensions	328 x 172 x 220mm



6 YEAR WARRANTY

## 12V 110 Amp Hour

Nominal voltage	12.8V
Nominal capacity	110Ah
Energy	1208Wh
Charging voltage	14.6V
Max charging current	54 Amp
Max discharge current	110 Amp
Weight approx.	13.7kg
Dimensions	355 x 176 x 189 mm



6 YEAR WARRANTY

## 12V 54 Amp Hour

Nominal voltage	12.8V
Nominal capacity	54Ah
Energy	692Wh
Charging voltage	14.6V
Max charging current	27 Amp
Max discharge current	54 Amp
Weight approx.	6.7kg
Dimensions	229 x 138 x 217mm



6 YEAR WARRANTY

## 12V 84 Amp Hour

Nominal voltage	12.8V
Nominal capacity	84Ah
Energy	1075Wh
Charging voltage	14.6V
Max charging current	42 Amp
Max discharge current	84 Amp
Weight approx.	10.2kg
Dimensions	260 x 169 x 218mm



6 YEAR WARRANTY

## 12V 216 Amp Hour

Nominal voltage	12.8V
Nominal capacity	216Ah
Energy	2765Wh
Charging voltage	14.6V
Max charging current	100 Amp
Max discharge current	100 Amp
Weight approx.	28.1kg
Dimensions	522 x 238 x 220mm



6 YEAR WARRANTY

## 12V 320 Amp Hour

Nominal voltage	12.8V
Nominal capacity	320Ah
Energy	3955Wh
Charging voltage	14.6V
Max charging current	100 Amp
Max discharge current	100 Amp
Weight	36.1kg
Dimensions	522 x 238 x 220mm

