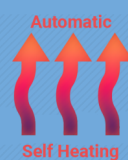




**150 Amp Hour**  
**LiFePO<sub>4</sub>**



Built-in BMS with Voltage, Temperature, Charge, Current and Short Circuit Protection

Light weight and High Power Density—Half the weight of acid battery with twice the power density

Up to 2000 cycles at 100% Depth of Discharge — Up to 4000 at 80% Depth of Discharge

6 Year Warranty    Genuine Physical UK Company in Nottingham    Guaranteed Quality

We only use Genuine “Grade A” LiFePO<sub>4</sub> Cells in this battery

## Voltage

Nominal Voltage\_\_\_\_\_12.8 V (Used for power calculations)

Charge Voltage\_\_\_\_\_14.2 V—14.7 V (GEL, AGM/SLA and Lithium Chargers work in this voltage range)

Low Voltage Cut-Off\_\_\_\_\_10.8 V (The battery will activate over-discharge protection at 10.5 V)

High Voltage Protection\_\_\_\_\_15.0 V (The battery will activate over-charge protection at 15.0 V)

## Current

|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| Maximum Discharge | Current_____150 Amps                                                           |
|                   | Power_____1920 Watts (12.8 V x 150 Amps)                                       |
|                   | Pulse_____375 Amps (<10 Seconds) (essential to allow some devices to start up) |

|                |                                        |
|----------------|----------------------------------------|
| Maximum Charge | Current_____75 Amps                    |
|                | Power_____960 Watts (12.8 V x 75 Amps) |

## Temperature

ALL Eco Tree batteries have temperature protection which will restrict charge and discharge when the cells are outside the optimal operating temperature. The further out of temperature range the battery goes the more aggressive the protection is.

For best performance, keep the battery within the ranges below.

Charge Temperature\_\_\_\_\_0°C—45°C (The temperature protection starts restricting charge at 3°C and 40°C)

Built – In Heater\_\_\_\_\_YES (for charging in cold conditions)

Discharge Temperature\_\_\_\_\_ -20°C—60°C (The temperature protection starts restricting discharge at 3°C low and 40°C high)

Storage Temperature\_\_\_\_\_0°C—45°C (storing too cold will cause faster self discharge and storing too hot over long periods will cause cell degradation)

## Physical Characteristics

|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Weight_____                  | 15KG                                                                 |
| Dimensions_____              | Length 354mm Width 176mm Height 187mm                                |
| Cells_____                   | LFP150000mAh @ 3.2 v                                                 |
| Pack Format_____             | 4 cells in Series                                                    |
| Cell Type_____               | Lightweight, High Power Density, Compact - Prismatic Packs           |
| Outer Case_____              | Impact resistant ABS plastic, UL94-Vo Flame Resistant                |
| Terminal_____                | M8 Threaded Insert                                                   |
| Water / Dust Resistance_____ | IP67 (protection against dust particles and immersion up to 1 metre) |

## Miscellaneous

|                          |                           |                              |                      |
|--------------------------|---------------------------|------------------------------|----------------------|
| Internal Resistance_____ | 18 ≤mΩ                    | Self Discharge_____          | Up to 3.5% per month |
| Series Connection_____   | 4 in Series (up to 51.2v) | Automatic Cell Balancer_____ | YES                  |
| Safe Transport_____      | UN38.3 PASSED             | European Conformity_____     | 93/66/EEC            |