



# Lifepo4 battery pack

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Eco Tree is the UK market leader in lithium iron phosphate battery technology. Lithium iron phosphate (LiFePO<sub>4</sub>) technology results in a battery cell that allows the most charge-discharge cycles. Also, unlike lithium-ion battery technology, LiFePO<sub>4</sub> prevents possible fire risks and explosions caused by overheating.

Eco Tree's LiFePO<sub>4</sub> battery range offers many advantages. With a built-in intelligent BMS, performance optimisation and emphasis on safety by automatically balancing cells and protecting them from overcharge, over-discharge, over current, short circuit, high and low-temperature protection functions.

Advantages include fast charging, longer service life, temperature protection, and high cycle life, making them perfect for demanding applications. Smart cell technology allows each battery to provide high power over a short period or lower power over a long period. We can say that major benefits of LiFePO<sub>4</sub> batteries are:

Plus, an Eco Tree LiFePO<sub>4</sub> charges 10 x faster than a lead-acid/AGM battery. Eco Tree Lithium batteries provide more than 2000 x 100% deep discharge cycles and will still perform at a minimum of 70% of its rated capacity after that.

We offer a manufacturer's warranty covering defects in battery cells for 10 years. Lithium Phosphate (LiFePO<sub>4</sub>) battery technology is the safest available. Our products are CE and UN38.3 accredited.

The LiFePO<sub>4</sub> has the advantage of being both more durable (cycle life is 4-5 times longer) and safer. This is a critical advantage since lithium-ion cells can overheat and even combust in some applications, unlike a LiFePO<sub>4</sub>, which won't.

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Today, LiFePO<sub>4</sub> (Lithium Iron Phosphate) battery pack has emerged as a revolutionary technology. It offers numerous advantages over traditional battery chemistries. As the demand for efficient energy grows, understanding the LiFePO<sub>4</sub> battery packs becomes crucial. This comprehensive guide aims to delve into the various aspects of LiFePO<sub>4</sub> battery. Its technology, composition, advantages, applications, and maintenance will also be explained.

LiFePO<sub>4</sub> batteries belong to the family of lithium-ion batteries. They come with a cathode material composed of lithium iron phosphate. This specific chemical composition provides several key benefits. It also makes LiFePO<sub>4</sub> batteries stand out in the energy storage landscape.



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One of the most significant advantages of LiFePO<sub>4</sub> batteries. They have an enhanced safety profile. Unlike other lithium-ion batteries, LiFePO<sub>4</sub> chemistry is inherently stable. It reduces the risk of thermal runaway or fire incidents. This makes them an ideal choice for applications where safety is a top priority.

LiFePO<sub>4</sub> batteries boast an impressive cycle life. They often exceed 2000 charge-discharge cycles. This longevity makes them a cost-effective solution for applications requiring frequent use. For example, electric vehicles (EVs) and renewable energy storage systems.

LiFePO<sub>4</sub> batteries have a slightly lower energy density compared to some others. They compensate for it with improved safety and longer cycle life. Advances in technology are continually increasing the energy density of LiFePO<sub>4</sub> batteries. It is making them even more attractive for various applications.

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