Eco tree lithium 320ah

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LiFePO4 uses iron phosphate for the cathode material, which is better than electric car batteries that use nickel and cobalt, such as nickel metal hydride batteries (NiMH).

How do electric car batteries work? They produce a constant voltage and power to drive the electric motors in electric vehicles, something traditional lead acid batteries can’t do.

Environmentally friendly: Using iron phosphate instead of lithium cobalt oxide requires less lithium mining and other raw materials such as nickel, which is better for the environment

Battery Capacity: The total amount of energy that a battery can store. Typically measured in kilowatt-hours (kWh). A higher-capacity battery will have a longer range.

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Lithium batteries are extremely safe thanks to their BMS. The BMS is a small circuit board that controls all aspects of the battery and is constantly monitoring everything from output input temperature and more. Having this control means that if there’s anything the BMS doesn’t like it’ll take precautions so that the battery is not damaged – which is how lithium can be dangerous. The BMS is rock solid in terms of reliability – it’s unheard of to have a BMS fail.

Lithium also has no dangerous elements used in its construction that you can come into contact with and they do not produce any gasses – lead acid batteries have lead terminals that you may touch and have sulphuric acid as their electrolyte. They also gas hydrogen when in use so can cause dangerous build ups if not vented properly.

Most of our lithium range use traditional lead acid battery cases so a lot of them are drop in replacements for existing lead acid – we’d always go for a like-for-like in physical size so you can experience the benefit of lithium.

If you don’t have a battery currently and are not sure then we’d recommend taking a look at any size constraints you may have and then seeing what your demands are. For example if you already have a battery box / bay that’s for 110Ah leisure batteries and want to run normal loads (like lights water pumps motor-movers inverters etc) then there’s a good chance we’ll recommend a 80-110Ah lithium battery. A good way to compare lithium to lead acid is to look at the Wh ratings – lithium tends to be about double the capacity compared to lead acid.

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We’re always happy to give recommendations to individuals as every application and/or vehicle is unique – we may ask what your demands are in Watts or Amps; these ratings will be on the back of your appliances.

You do not need a special charger for lithium to be installed. We do however recommend having a charger with a AGM or Gel setting as this will charge at the voltage lithium wants to see. If you do not have a charger with these settings we’d recommend either a CTEK if you’d like to use the charger on other things like your car or if it’s just for charging the lithium battery we’d recommend a lithium charger. On-board chargers on motorhomes and caravans traditionally have a higher charge voltage anyway so will be safe to install.

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