



LiFePO₄ Lithium batteries require several key elements to give the user a reliable and a long lasting battery system. Revolution Power Australia's battery encompasses all these elements in a production built battery with an in-built Battery Management System (BMS) that endures Australia's harsh environment.

As with any battery, LiFePO₄ batteries suffer when they are over-charged or over-discharged. An inbuilt BMS is critical to provide under and over voltage protection, and balance the cells. Without an in-built BMS the cells may discharge to 100%, or become unbalanced over time, which will adversely affect the cycle life of the LiFePO₄ Lithium battery.

During battery manufacture, matching the internal resistance of the cells within the battery pack is a key factor that determines performance, reliability and longevity.

Pairing a LiFePO₄ Lithium battery with the correct charger and charge rate ensures the cells are charged effectively. If a LiFePO₄ Lithium battery is not charged at its specific optimum charge rate, it will adversely affect the cycle life of the battery. Recommended charge profiles for LiFePO₄ Lithium batteries vary between manufacturers. You need to make certain that the LiFePO₄ Lithium battery and charger are compatible.

The Revolution Power Australia LiFePO₄ Lithium battery range has been internally and independently validated by REDARC to ensure The Manager 30 Battery Management System (BMS1230S2) and LFP In-Vehicle Battery Chargers (LFP1225 & LFP1240) charging systems interact correctly with the battery and brings the cells back to full charge in a safe and effective manner. Additionally, Redarc confirms that not all LiFePO₄ Lithium battery cells and in-built Battery Management Systems (BMS) are the same.

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