



# Lfp smart 12 8 330

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LiFePO<sub>4</sub> batteries are the safest li-ion batteries on the market. Where a lead-acid battery will fail prematurely due to sulfation (e.g. when batteries are rarely or never fully-charged, or are left discharged for extended periods of time), an LiFePO<sub>4</sub> battery's service life will actually improve when left partially charged.

LiFePO<sub>4</sub> batteries are more efficient as well, with lower internal resistance and the ability to continue operating well even when days go by between full charges.

In fact, while lead-acid batteries typically provide only 80% round-trip energy efficiency, LiFePO<sub>4</sub> batteries provide 92%. And, when lead-acid batteries reach their 80% state of charge, they drop to approximately 50% efficiency; LFP batteries will still achieve 90% efficiency under the same conditions.

We sure think so. LFP batteries make up for their initial cost up front with a longer life, greater efficiency, and increased reliability when compared to their lead-acid counterparts. While lead-acid offers a lower entry price, you can expect those batteries will require more frequent replacements and offer less reliability and efficiency long-term.

Learn more about why we recommend Victron equipment.

Nominal voltage of each LFP cell is 3.2V (compared to lead-acid -- 2V per cell); a 12.8V battery consists of 4 cells connected in series, and a 25.6V battery consists of 8 cells connected in series.

Military/Veteran, First Responder, Nurse, & Teacher Discount

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