

LITHIUM FERRO PHOSPHATE

THE SAFER LITHIUM BATTERY

We believe that LFP technology suits Australian conditions where high temperatures, long maintenance free installation and rugged design are vital for performance in the field. Our tests confirm long term storage suitable for maximum usage and discharge cycles . Data is based on QA test procedures in our Australian laboratory. Results may vary with inverter efficiency and loom loss. All testing shown reflects a load at 240V AC.

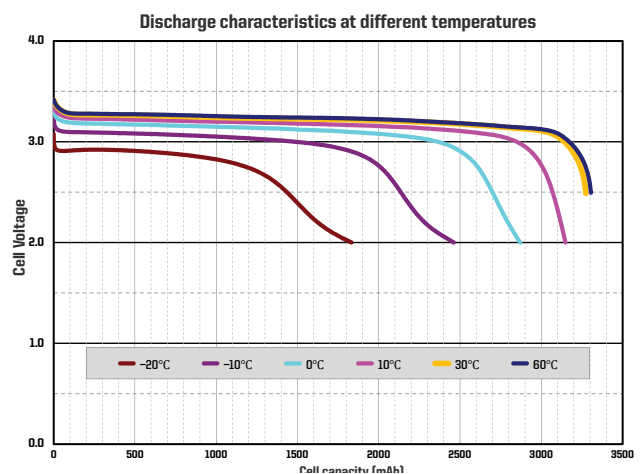
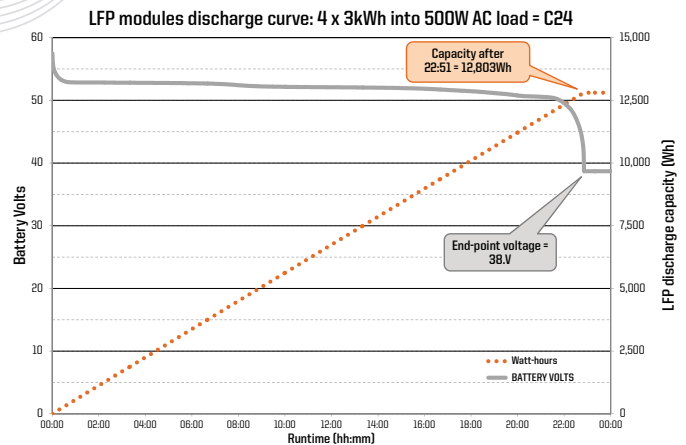
genZ battery modules are designed for storage of energy in the minimum space possible, while retaining performance and safety.

Each module contains a Battery Management System (BMS). A BMS is a critical component in any LFP battery pack. The BMS is required for safety, reliability and longevity. All genZ packs are fitted as standard with a BMS. All genZ BMS's provide protection from over voltage, under voltage, over temperature, over current, overcharging as well as managing internal cell balancing. The BMS will react to any fault condition and will automatically reset once the fault has cleared. They are compatible with a variety of industrial grade chargers and UPSs.

genZ makes the best use of LFP technology. LFP provides better performance in higher ambient temperatures. All genZ products are rated to work efficiently at 25° to 55° Celsius ambient.

48V is a common operating voltage for inverters and chargers. It makes for efficient conversion to a 240V AC system, while enabling safer handling of the individual energy storage components.

DESIGNED IN AUSTRALIA
FOR AUSTRALIAN CONDITIONS



REPLACING LEAD ACID BATTERIES

Traditional lead acid systems can be replaced with LFP battery technology. LFP can deliver greater cycles and greater depth of discharge than possible with lead acid. As lead acid technology does not permit 100% depth of discharge, most lead acid storage systems are engineered with depth of discharge not exceeding 75%. LFP systems can be designed with a smaller capacity to yield the same useable storage, while still offering three times more service cycles for a longer system life.

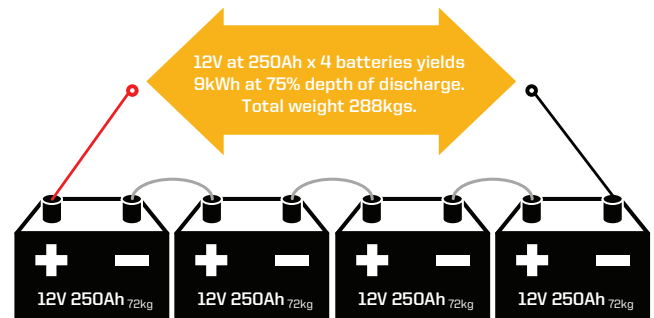
Unlike lead acid technology, LFP systems are designed for efficient operation when connected in parallel. Due to the safeguards built in with the integral BMS, it is not practical to connect genZ LFP modules in series. Plus, there is no hydrogen gas expelled, no liquids to leak and no heavy lead batteries to handle.

The genZ rack mount modules include a circuit breaker that allows for safe individual isolation of each module before removal.

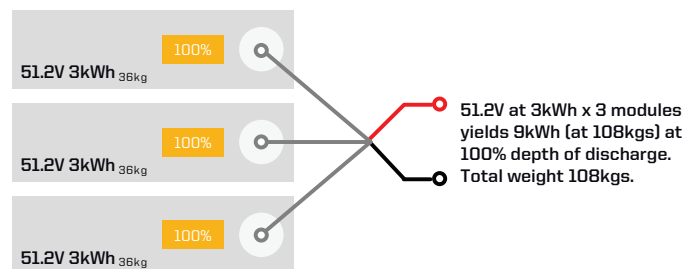
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Product design and specification subject to change or modification without notice - images for illustration only. EBOE.

Lead acid in series 48V



LFP in parallel 48V



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