



Lithium ion battery 470 kWh

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The MG LFP Battery 24 V is available in three versions: LFP 230, LFP 304 and the LFP 304 SLP. The third generation LiFePO₄ chemistry forms the basis of this safe and reliable battery. This battery is fully scalable in both voltage and capacity. Easily expand your energy storage system (ESS) by connecting the LFP batteries in parallel and series. Connect up to 16 modules in series, to create a battery voltage of 470 Vdc. Adding more parallel strings increases the system capacity. As a result, you can reach system capacities of over 1 MWh.

Route the cabling over the batteries by using the cable trays. This prevents cable tangling. Through the innovative design, MG battery systems ensure a neat system installation. The LFP 304 SLP is equipped with front side connectors for cabling.

The CAN-Bus enables communication between the LFP Battery and the MG Master BMS. The MG Master collects and monitors all relevant data from the entire battery bank. The LFP batteries 24 V are available with RJ45 or M12 CAN-Bus connectors.

LFP 24 V battery modules comply with several standards. ES-Trin regulations IEC-EN 62619 & IEC-EN 62620 for the LFP 280, LFP 304 and LFP 304 SLP are approved. The LFP 230 is IEC-EN 62620 approved and IEC-EN 62619 is in progress.

In addition, the battery modules are tested following the UN38.3 transportation tests for lithium-ion batteries. These standards include safety and performance tests on both cell and module level including the battery management system. This includes thermal tests, altitude simulation, vibration, shock, overcharge and external short-circuit.

To ensure a neat installation, use the modular rack system for the LFP series. The LFP 304 SLP batteries racks are specially designed with a slide-in mechanism, in such a way that only front access is needed. As a result, the installation is easy and front-side-only. The rack can be configured in different dimensions. It is offered as a kit, which makes it suitable for use in existing spaces in any application. In other words, minimal integration engineering is required.

This model is equipped with Amphenol SurLok Plus connectors. With this additional model, MG takes the famous LFP 304 battery to a higher level in terms of safety and ease of installation. This SLP version is compatible with both the MG Master LV and MG Master HV. They are the best choice within the LFP Series for all high-voltage applications in combination with our MG Master HV (BMS).

Besides improved safety and easier installation, another benefit of the new SurLok connectors is that the maximum voltage has been increased. The normal LFP 230 and LFP 304 versions were limited to a maximum



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of 16 LFP batteries in series (nominal 409 Vdc). With the LFP 304 SLP, the number of batteries in series increased to a maximum of 22 batteries in series. This results in battery bank configurations with a nominal voltage of 563 Vdc.

The protection covers serve as a shield for the cabling of the batteries. This way the chance of damaging the connections is limited. In addition, the battery poles are covered which increases the product safety.

The robust metal housing of the MG batteries makes the product more solid. In addition, a metal enclosure serves as a strong EMC radiation protection. The LFP batteries are impact resistant and safe to install with brackets or straps.

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