

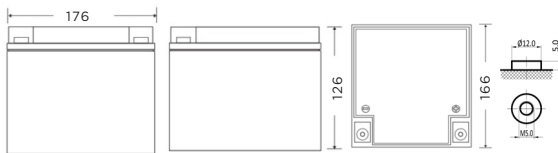
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BATTERY SPECIFICATIONS

ENLiFEN Lithium PO4 12V25Ah



Valen ENLiFEN is a Lithium Phosphate (LiFePO4) battery. Having a Battery Management System (BMS) allows the ENLiFEN battery to safely perform to your requirements without the fear of thermal runaway and explosion. The BMS also equalises all battery cells ensuring longevity. Being fully sealed, the Valen ENLiFEN does not require special ventilation. Customisation ensures the Valen ENLiFEN is able to be retrofitted into a range of areas that are space restrictive. Valen ENLiFEN battery is constructed utilising individual 3.2V3200mAh battery cells in series and parallel. Charge and discharge parameters are determined by the inbuilt BMS in accordance with system requirements for maximum benefits. Thanks to its flexibility, BMS and proven ability to withstand high temperatures, the Valen ENLiFEN battery is the battery of choice for remote, space restrictive and hot environments such as monitoring equipment and signage.



Handling of Cells

Never short circuit the battery cell. It generates very high current which causes heating of the cells and may cause electrolyte leakage which can be very dangerous. The Li-Fe tabs may be easily short circuited by putting them on a conductive surface. Such outer short circuit may lead to heat generation and damage of the cell. An appropriate circuitry with BMS shall be employed to protect accidental short circuit of the battery pack.

Storage

- The batteries should be stored at room temperature, charged to about 30% to 50% capacity.
- Valen recommend that batteries be charged around every 6 months to prevent over-discharge.

Specifications

Voltage	12 Volt nominal
Capacity	25Ah
Minimum Capacity	24.5Ah
Chemistry	Lithium Iron Phosphate (LiFePO4)
Dimensions	176(L) x 166(W) x 126(H)
Weight	3.5kg
Terminal	M5
Container/Cover	ABS
Charging End Voltage	14.4V
Standard Charge	Constant Current: 5A Constant Voltage: 14.4V Charge Time: approx. 4 hours
Standard Discharge	Constant Current: 5A End Voltage: 8.0V
Operation Temperature	Charge: 0°C to +45°C Discharge: -10°C to +60°C
Storage Temperature	Less than 1 year: -20°C to +40°C Less than 3 months: -20°C to +40°C

Disclaimer:

While Valen have taken every effort to represent the ENLiFEN PO4 accurately within this specification, Valen advise the user to ascertain their own measurements and test the parameters and specifications to which the battery must conform. The Lithium battery technology is rapidly being developed and research is continually carried out to ensure that the ENLiFEN PO4 battery will meet the needs of a growing market.

Specifications subject to change without notice.