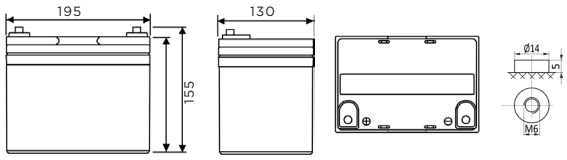
12 EL 33

BATTERY SPECIFICATIONS

ENLiFEN Lithium PO4 12V33Ah

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.



Specifications

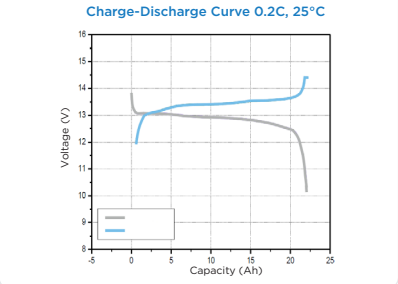
Voltage	12 Volt nominal
Capacity	34.2Ah
Chemistry	Lithium Iron Phosphate (LiFEPO4)
Dimensions	195(L) x 130(W) x 155(H)
Weight	4.0kg
Terminal	M6
Container/Cover	ABS
Internal Resistance	≤50mΩ
Cycle Life	The cycle life is not less than 2000, the capacity retention rate is ≥ 80%.
Passive Protection Function	Over charge protection, over discharge protection, temperature protection, balanced function
Charge Voltage	14.4V ± 0.15V
Charge Current	≤17.1A
Discharge Current	17.1A
Discharge Cut-off Voltage	About 10.0V
Charge Temperature	0°C to +45°C
Discharge Temperature	-20°C to +60°C

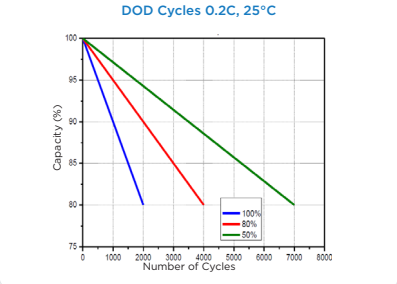
Battery Service Environment

Battery discharge ambient temperature is -20°C to +60°C (when ambient temperature >45°C, please pay attention to the ventilation and heat dissipation). Charging temperature is 0°C to +45°C. Ambient humidity RH is ≤85%. Pay attention to waterproof when ambient humidity is >85%, at the same time the battery surface condensation phenomenon should be avoided.

Special Note

- Do not charge, discharge and leave the battery at temperatures over +60°C. Keep away from all heat sources and corrosive materials.
- Do not reverse the positive and negative terminals. Do not short the positive and negative terminals of the battery.
- Do not install the battery in series
- Do not overlod the battery.
- Do not directly weld the battery or pierce the battery under any circumstances.
- Please charge the battery within 12 hours after use. If the battery is not charged for more than 12 hours after use, please test the battery voltage before charging.
- In case of accidental fire, dry powder fire extinguisher or sand should be used.
- If the battery gives off a strange odour, generates heat, becomes discoloured or deformed during use, storage or charging, stop charging and use immediately. Remove the battery and contact Valen.
- The electrode of the discarded battery terminal should be covered with insulating paper to reduce the safety hazard when laying aside.





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.

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