ENLiFEN 12V18Ah

12EL01812

- Valen ENLiFEN range features a Lithium Phosphate (LiFe PO4) battery constructed utilising individual 3.2V3200mAh cells in series and parallel.
- Superior life with an expectancy of 6 to 10 times more than standard AGM batteries.
- Up to two thirds lighter in weight than standard AGM batteries.
- Safer battery option as the customised built-in Valen ENLiFEN BMS prevents short circuit, over-voltage and over-discharge, as well as thermal runaway.
- Customisation allows the Valen ENLiFEN to be fitted into areas standard VRLA batteries cannot be utilised due to size restrictions.
- Maintenance-free battery range dramatically reduces the time spent on site for battery-related issues
- **Battery-to-Battery Communication:** The batteries are connected directly to each other with interconnecting cables for communication; however, they work without communicating with the inverter.

- **Clustered Operation:** Similar to the Managed setup, the batteries in the Self-Managed installation also work together as a cluster, maintaining uniform discharge and recharge to optimize performance.
- **Independent Battery Operation**: Just like in the Managed system, if one battery needs to turn off or stop its charge/discharge cycle, the system continues to operate seamlessly with the remaining batteries. There's no interruption in the overall system operation

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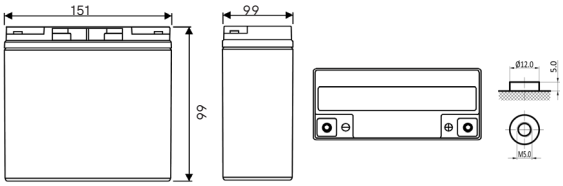
12ELO1812

BATTERY SPECIFICATIONS

Dimensions



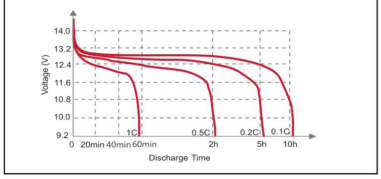
Specifications

Nominals Voltage	12 Volt nominal
Capacity	18Ah
BMS	Internal
Chemistry	Lithium Iron Phosphate (LiFEPO4)
Dimensions	151(L) x 99(W) x 99H)
Weight	1.3kg
Terminal	F2
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 Mode	
Charge Current	≤5A
Max. Charge Current	
Continuous Discharge Current	15A
Max. Continuous Discharge Current	15A-20A (≤2min)
Max. Pulse Current	
Discharge Cut-off Voltage	10V
Charge Temperature	0°C to +45°C
Discharge Temperature	-20°C to +60°C
Storage Temperature	

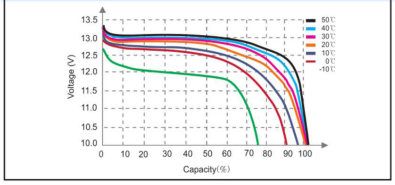
Specifications subject to change without notice.

ENLiFEN 12V 18Ah

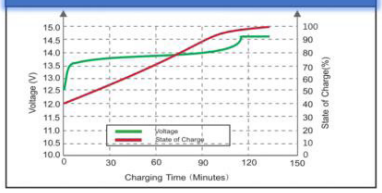
Different Rate Discharge Curve(25℃)



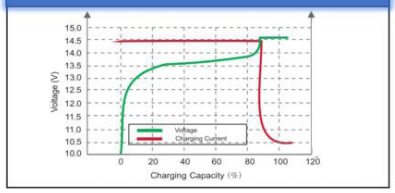
Different Temperature Discharge Curve (0.5C)



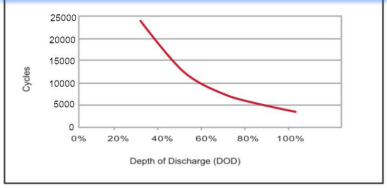
State of Charge Curve (0.5C, 25℃)



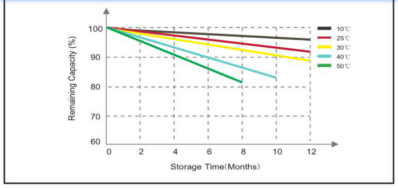
Charging Characteristics (0.5C,25℃)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve



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.

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