

# ENLiFEN 12V50Ah

## 12ELWY50

- Valen ENLiFEN 12V50Ah Battery, WY Connector 90° features a Lithium Phosphate (LiFe PO<sub>4</sub>) battery constructed utilising individual 3.2V3200mAh cells in series and parallel.
- These Lithium cells are controlled by the Valen ENLiFEN Battery Management System (BMS). Customised BMS allows the Valen ENLiFEN battery to perform safely without the fear of thermal runaway and explosion.
- Another crucial feature of the Valen ENLiFEN BMS is to equalise all individual Lithium cells in the battery, ensuring longevity.
- Customisation ensures the Valen ENLiFEN 12V50Ah Battery's WY Connector 90° can be retrofitted into a range of space restrictive areas.
- Thanks to the Valen ENLiFEN range's flexibility, BMS and proven ability to withstand high temperatures, it has become the battery of choice for remote, space restrictive and hot environments such as monitoring equipment and signage



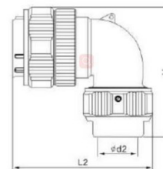
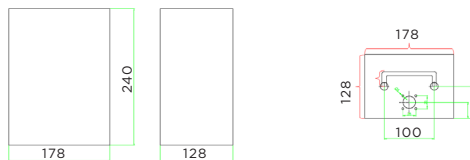


# 12ELWY50

## BATTERY SPECIFICATIONS

Nominal Voltage	12.8V
Capacity	50Ah
Chemistry	Lithium Iron Phosphate (LiFePO4)
Max. Voltage Equalisation	14.6
Max. Charge Current	20A
Max. Voltage Boost Absorption Float	14.3V   14.1V   13.9V
Min. Charge Current	0.5A
Max. Voltage Protection	15V
Min. Voltage Protection	10.5V
Max. Current Protection	20A
Min. Current Protection	100mA
Charge Requirements	14.4VDC Constant MPPT
Discharge Current	20A (recommended max.)
Cell Balancing	YES
Battery Cut-off Temp.	+60°C to +70°C
Weight	7.2kg
Dimensions	178(L) x 128(W) x 240(H)mm
Case Material	Black Aluminium
Handle	1x flap down metal handle on the top
Unit Protection	Over-voltage, over-discharge, shorting, cell balancing via BMS
Compliance	Container and connectors at IP65
Temperature Probe & Cable	LM35 RTS Probe 3 with 600mm 3 core cable with JST Connector (JST PMR - 3)

## BATTERY SPECIFICATION



H	54
L2	58.3
d2	9-10.5

## Storage Environment

Discharge Temperature Range	-5°C to +75°C
Charging Temperature Range	0°C to 45°C
Operating Humidity	RH > 85%
Storage Temperature	-5°C to +60°C
Storage Life	3 years
Electrical Connector	2 core (RFD & Black) 600mm Long 4mm Square with JST crimp plug (JST VLP02)

### Disclaimer:

While Valen has taken every effort to represent the ENLiFEN PO4 accurately within this specification, Valen advises the user to ascertain their own measurements and test the parameters and specifications to which the battery must conform. 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.