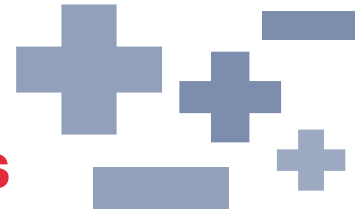


FIAMM

Industrial Batteries

ENDURLITE

XL 2V cells



Applications and Key Benefits

- + 2V cells with grid plates and electrolyte in gel
Ideal for:
 - Use in areas with unstable power supply
 - Operation at elevated temperature
 - Electric utility
 - Railway equipment
 - UPS application
 - Renewable energies (Solar / Wind)
 - Telecom wireless and wireline
 - Industry and process controls
 - Emergency power supply systems
 - IT network operations and data centers
 - Switchgear
- + Excellent for deep DOD cycling and deep discharge recovery (DIN 43539T5)
- + Suitable for short (30 min) to very long (20 h) discharge
- + FV0 flame retardant plastics
- + Minimal gassing and maintenance free without topping - up
- + Recyclable

Applicable Standards

- DIN 43539T5 – deep DOD cycling and deep discharge recovery
- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- BS 6290 Part 4 – VRLA classification
- Eurobat “Long Life” – 12 years and longer
- UL Recognized

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- OHSAS 18001 – Workplace Safety and Health

Technical Features

- Thick pasted plates with high quality lead-tin-calcium alloy for low corrosion and high rate performance
- Electrolyte immobilized in gel structure, filling completely the space between the plates top to bottom
- Separators with extremely high porosity and low internal resistance
- ABS IEC 707 FV0 flame retardant plastics
- Container and lid designed for high mechanical strength
- Female M8/M10 terminals guarantee high conductivity, minimum installation time and maximum torque retention
- Flame arrestors expel excess gas and prevent sparks or flames from entering the battery
- Safety valves operate at low internal pressure



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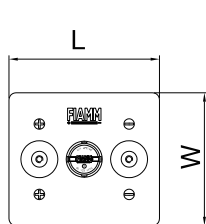
XL 2V cells

FIAMM XL range

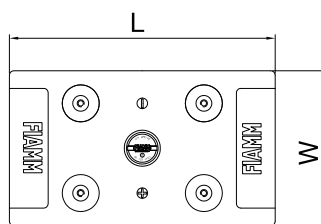
| BATTERY TYPE | NOMINAL VOLTAGE (V) | CAPACITY (Ah) at 20°C | SHORT CIRCUIT CURRENT (A) | INTERNAL RESISTANCE (mOhm) | DIMENSIONS (mm) | | | WEIGHT (kg) | TERMINAL TYPE |
|--------------|---------------------|-----------------------|---------------------------|----------------------------|-----------------|--------|--------|-------------|---------------|
| | | 10 hrs to 1.80 VPC | IEC 60896-21 | IEC 60896-21 | Width | Length | Height | | |
| 2XL150 | 2 | 150 | 2780 | 0.74 | 107 | 171 | 362 | 11.7 | Female M8 |
| 2XL200 | 2 | 200 | 3120 | 0.66 | 107 | 171 | 362 | 14.8 | Female M8 |
| 2XL300 | 2 | 300 | 3320 | 0.62 | 151 | 171 | 362 | 20.6 | Female M8 |
| 2XL400 | 2 | 400 | 5140 | 0.40 | 175 | 211 | 362 | 28.5 | Female M8 |
| 2XL500 | 2 | 500 | 6050 | 0.34 | 174 | 240 | 362 | 34.3 | Female M8 |
| 2XL600 | 2 | 600 | 7620 | 0.27 | 176 | 302 | 363 | 42 | Female M8 |
| 2XL700 | 2 | 700 | 8296 | 0.25 | 175 | 411 | 362 | 51.5 | Female M10 |
| 2XL800 | 2 | 800 | 10280 | 0.20 | 175 | 411 | 362 | 56.8 | Female M10 |
| 2XL1000 | 2 | 1000 | 12090 | 0.17 | 175 | 478 | 362 | 69.3 | Female M10 |

Note: dimensions may have a natural tolerance of ± 2 mm

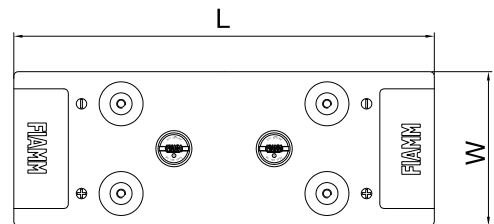
Dimensions



2XL150
2XL200
2XL300



2XL400
2XL500
2XL600



2XL700
2XL800
2XL1000

Electrical Characteristics

- ✦ FLOAT VOLTAGE CHARGE AT 20-25 °C: Standby use 2.25-2.27 V/cell
- ✦ BOOST CHARGE: 2.35 V/cell
- ✦ MAXIMUM CHARGE CURRENT: 0.25C_{10A} (i.e.: for a 100Ah bloc maximum charge current is 25 Amps)
- ✦ FLOAT VOLTAGE TEMPERATURE COMPENSATION : - 2.5mV/°C/cell
- ✦ SELF-DISCHARGE AT 20 °C : < 2% / month
- ✦ WARNING: in order for the warranty to be valid in all critical, frequent discharge and hybrid applications, please coordinate with Fiamm Group to clarify required operating and charging settings

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