

# FIAMM

Industrial Batteries

ENDURLITE

## XL 12V blocs

### Applications and Key Benefits

- + Front/top terminal 12V blocs
- + Grid plates with electrolyte in gel guarantee long cycling life  
ideal for:
  - Telecom (BTS) application
  - Applications in areas with unstable power supply
- + Excellent for deep DOD cycling and deep discharge recovery (DIN43539T5)
- + Front terminal design reduces installation time and facilitates maintenance  
(except 12XL60)
- + Fits 23 inch power racks / cabinets  
(except 12XL60 and 12XL205)
- + Allows more compact battery layout
- + Fit for remote venting system
- + 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 & 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 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
- Remote venting system available for applications which require limited gassing to be vented externally

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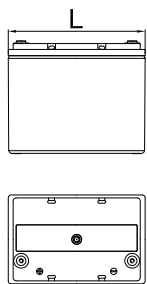
# XL 12V blocs

## FIAMM XL range

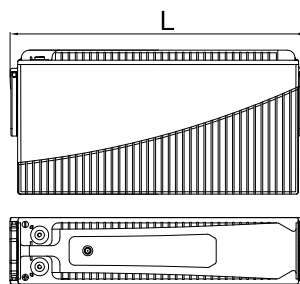
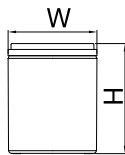
| BATTERY TYPE | NOMINAL VOLTAGE (V) | CAPACITY (Ah) at 20°C | SHORT CIRCUIT CURRENT (A) | INTERNAL RESISTANCE (mOhm) | DIMENSIONS (mm) |        |        | WEIGHT (kg) | TERMINAL TYPE |
|--------------|---------------------|-----------------------|---------------------------|----------------------------|-----------------|--------|--------|-------------|---------------|
|              |                     | 10 hrs to 1.80 VPC    | IEC 60896-21              | IEC 60896-21               | Width           | Length | Height |             |               |
| 12 XL 60     | 12                  | 60                    | 1423                      | 8.88                       | 168             | 259    | 213    | 25.5        | Female M8     |
| 12 XL 105    | 12                  | 100                   | 2253                      | 5.53                       | 126             | 558    | 230    | 38.1        | Female M8     |
| 12 XL 125    | 12                  | 120                   | 2144                      | 5.82                       | 126             | 558    | 270    | 44.9        | Female M8     |
| 12 XL 155    | 12                  | 150                   | 2519                      | 4.97                       | 126             | 558    | 320    | 54.8        | Female M8     |
| 12 XL 175    | 12                  | 170                   | 3437                      | 3.62                       | 226             | 500    | 235    | 62.4        | Female M8     |
| 12 XL 205    | 12                  | 200                   | 3611                      | 3.44                       | 260             | 500    | 235    | 73.9        | Female M8     |

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

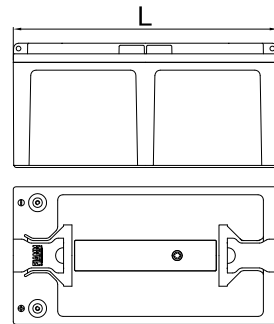
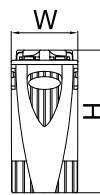
### Dimensions



12XL60



12XL105  
12XL125  
12XL155



12XL175  
12XL205

### 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: 0.25 C10 A (i.e. for a 100Ah bloc maximum charge current is 25 Amps)
- ✦ FLOAT VOLTAGE TEMPERATURE COMPENSATION: -2.5 mV/°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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