FIAMM

XL 12V cells

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
- >12 years design life
- Deep discharge proof
- Front terminal design reduces installation time and facilitates maintenance (except 12XL60)
- Fits 23" power racks / cabinets (except 12XL60 and 12XL205)
- Allows more compact battery layout
- Fit for remote venting system
- Non-spillable
- Minimal gassing and maintenance free without topping-up
- Completely Recyclable

Applicable Standards

- DIN 43539T5 - deep discharge
- 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 and UL 94 V0 flame retardant plastics (LOI greater than 28%)
- Container and lid designed for unsurpassed mechanical strength made of thick walled plastics
- Female M8 terminals guarantee high conductivity, minimum installation time and maximum torque retention
- Front terminals for reduced headspace, higher energy density and compact battery layout
- High integrity post seal design to prevent electrolyte leakage and terminal corrosion
- Flame arrestors 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
- < 2% self-discharge per month at 20°C allows 6 months shelf life

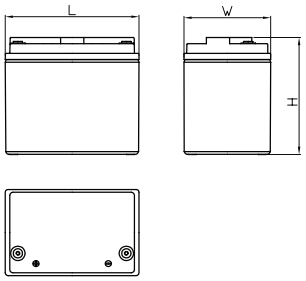
XL 12V blocs

FIAMM XL range

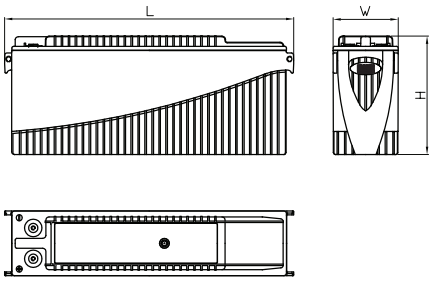
Model	Nominal Voltage (V)	Capacity (Ah) at 20°C	Dimensions (mm)			Weight (kg)	Terminal Type
		10 hrs to 1.80 VPC	Length	Width	Height		
12XL60C	12	60	260	168	228/228	23.0	Female M8
12XL105C	12	100	558	126	230/230	32.5	Female M8
12XL125C	12	120	558	126	270/270	37.0	Female M8
12XL155C	12	150	558	126	320/320	51.0	Female M8
12XL175C	12	170	500	226	235/235	61.0	Female M8
12XL205C	12	200	499	260	218/240	68.0	Female M8

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

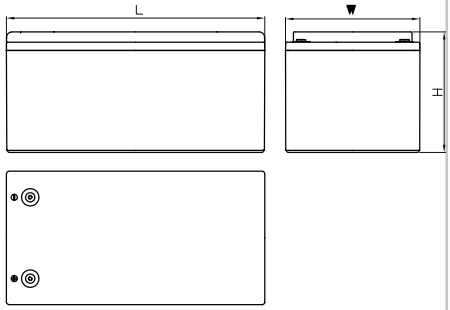
Dimensions



12XL60C



12XL105
12XL125
12XL155



12XL175
12XL 205

Electrical Characteristics

- FLOAT VOLTAGE CHARGE AT 20-25°C: Standby use 13.50-13.62 V/bloc (2.25-2.27V/cell)
- BOOST CHARGE: 2.35 V/cell
- MAXIMUM CHARGE CURRENT: 0.25 C_{10} A (i.e.for a 100Ah bloc maximun 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 to clarify required operating and charging settings

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