FIAMM

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 and UL 94 V0 flame retardant plastics (LOI greater than 28%)
- 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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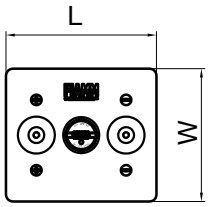
FIAMM XL range

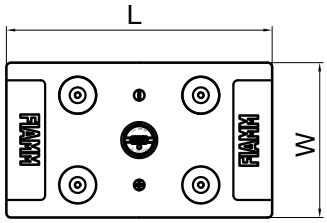
BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY (Ah) at 20°C	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mOhm)	DIMENSIONS (mm)			WEIGHT (kg)	TERMINAL TYPE
		10 hrs to 1.80 VPC	IEC 60896-21	IEC 60896-21	Width	Length	Height		
2XL150	2	150	2780	0.74	107	171	362	11.7	Female M8
2XL200	2	200	3120	0.66	107	171	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 ± 2mm

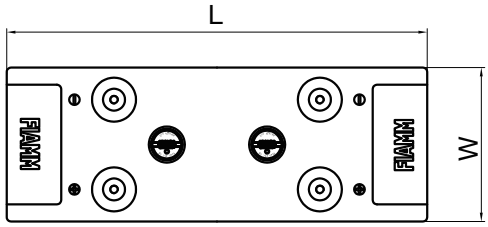
Dimensions



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_{10}A (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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FIAMM Energy Technology (Wuhan) Co. Ltd.
Reserve Power Solutions
www.fiamm.com
email: info.standby.asia@fiamm.com

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