



### Applications and Key Benefits

- + Designed to achieve optimal performance and to protect from power disturbances  
ideal for:
  - high rate discharge UPS application
  - emergency power supply systems
  - IT network operations and data centers
  - emergency lighting
- + 6 and 12 volt monoblocs
- + Very high energy density allows more compact battery layout and footprint
- + Easy installation in cabinets or racks
- + Non-spillable
- + Flame retardant plastics
- + VRLA AGM and gas recombination technology with 99% internal recombination
- + Maintenance free without topping-up
- + Non-hazardous for air/sea/rail/ road transportation
- + 100% Recyclable

### Applicable Standards

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- BS 6290 Part 4 - specifications for VRLA classification
- Eurobat "High Performance" - 10-12 years

### FIAMM Manufacturing

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

### Technical Features

- Gravity casted grids with high purity lead calcium tin alloy
- Active material on both sides of the grids guarantees optimized performance
- Minimal grid growth and corrosion resistant for prolonged service life
- Electrolyte fully absorbed in glass mat "AGM" separators with extremely high micro porosity
- Threaded female M5/M6/M8 terminal posts guarantee highest conductivity, maximum torque retention and easy installation
- Leak-resistant post seals prevent acid seepage over a wide temperature range
- Cells equipped with one-way safety valves that open at 5 PSI and close at 3 PSI to allow excess gas to escape when overcharging
- Flame arrestors prevent sparks or flames from entering the battery
- ABS IEC 707 FV0 and UL 94 V0 (LOI greater than 28%) flame retardant plastics
- Container and lid designed for unsurpassed mechanical strength made of thick walled plastics
- < 2% self-discharge per month at 20°C allows 6 months shelf life
- Remote venting system available for applications which require limited gassing to be vented externally (available on 12FLB250 to 12FLB800 and 6FLB800)



## FIAMM FLB range

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY at 25°C (AH)	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mOhm)	DIMENSIONS (mm)			WEIGHT (kg)	TERMINALS
		20 hrs to 1.75 VPC	IEC 60896 21-22	IEC 60896 21-22	Length	Width	Height		
12 FLB 100	12	26	768	16.4	166	175	125	9.35	M5/12
12 FLB 150	12	40	1270	9.8	197	165	170	14.0	M6/16
12 FLB 200	12	55	1550	8.3	229	138	212	18.5	M6/16
12 FLB 250	12	70	1975	6.5	272	166	195	23.5	M8/18
12 FLB 300	12	75	2620	4.8	261	174	218	27.0	M8/18
12 FLB 350	12	90	2430	5.2	302	174	218	31.0	M8/18
12 FLB 400	12	100	3260	3.8	341	174	218	34.5	M8/18
12 FLB 450	12	115	3870	3.2	379	174	218	38.5	M8/18
12 FLB 540	12	150	3660	3.4	338	174	277.5	44.5	M8/18
12 FLB 800	12	200	5530	2.3	500	226	235	63.9	M8/18
6 FLB 800	6	200	5000	1.3	321	177	227	34.3	M8/20

Note: dimensions may have a natural tolerance of  $\pm 2$  mm.

### 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 C20 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