



### 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
- + 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
- OHSAS 18001 - Workplace Safety & Health

### FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

### 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 12FLB450)



# HIGHLITE FLB

## 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	219	27.0	M8/18
12 FLB 350	12	90	2430	5.2	302	174	219	31.0	M8/18
12 FLB 400	12	100	3260	3.8	341	174	219	34.5	M8/18
12 FLB 450	12	115	3870	3.2	379	174	219	38.5	M8/18
12 FLB 500	12	135	3060	4.1	345	172	281	46.5	M8/18
12 FLB 540	12	150	3660	3.4	338	174	277.5	44.5	M8/18
12 FLB 700	12	235	4480	2.8	260	500	235	75.0	M8/18

## DISCHARGE WATTS PER CELL TO 1.67 V/CELL AT 25°C

BATTERY TYPE	MINUTES						
	5	10	15	20	30	45	60
12 FLB 100	186	126	103	86.1	65.4	47.4	37.4
12 FLB 150	286	201	156	127	93.9	68.3	53.4
12 FLB 200	354	256	204	167	125	91.9	73.4
12 FLB 250	489	339	257	207	152	108	86.8
12 FLB 300	557	397	311	254	186	134	106
12 FLB 350	669	477	374	305	224	161	128
12 FLB 400	743	530	415	339	248	179	142
12 FLB 450	855	609	477	390	286	206	163
12 FLB 500	757	571	449	379	284	205	165
12 FLB 540	874	658	540	449	341	249	195
12 FLB 700	935	883	735	600	451	334	273

### Electrical Characteristics

- ✦ FLOAT VOLTAGE CHARGE AT 25°C: 13.54 V/bloc (2.26 V/cell)
- ✦ BOOST CHARGE: 14.1 V/bloc with a maximum charge current of 0.25 C<sub>20</sub> A (i.e. for a 100Ah ...)
- ✦ FLOAT VOLTAGE COMPENSATION WITH TEMPERATURE: -15 mV/°C per bloc

FIAMM S.p.A.  
Industrial Batteries  
www.fiamm.com  
email:info.standby@fiamm.com



Industrial Batteries