

Applications and Key Benefits

- + 12V AGM blocs – 100WPC to 700WPC

Ideal for:

- High rate discharge UPS application
- Emergency power supply systems
- IT network operations and data centers
- Emergency lighting

- + Up to 10 year design life at 77°F on float
- + High energy density allows more compact battery layout and footprint
- + Easy installation in cabinets or racks
- + Non-spillable
- + AGM recombination technology minimizes gassing
- + No water additions required
- + Non-hazardous for air/sea/rail/ road transportation
- + 100% Recyclable

Applicable Standards

- UL Recognized
- UL 1778 4th edition - UPS equipment certification
- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- BS 6290 Part 4 - Specifications for VRLA classification

FIAMM Manufacturing

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

Technical Features

- **Plates:** Gravity casted grids from high purity lead calcium tin alloy provide an optimal current conducting framework for high rate discharge. Minimal grid growth and corrosion resistant for prolonged service life
- **Active Material:** on both sides of the grids guarantees optimized performance
- **Electrolyte:** fully absorbed in glass mat “AGM” separators with extremely high microporosity
- **Terminal Posts:** threaded inserts provide high conductivity, retain required torque values and allow for easy installation
- **Post Seals:** high integrity post seal design prevents electrolyte leakage over a wide temperature range
- **One-way Safety Valves:** open at 5 PSI and close at 3 PSI to allow excess gas to escape when overcharging
- **Flame Arrestors:** prevent any errant spark or flames from entering the battery.
- **Container and cover:** made from thick walled flame retardant ABS plastic and designed for unsurpassed mechanical strength. Thermally welded case to cover sealing eliminates leaks.
- **Flame Retardant Plastics:** Case and cover has an LOI greater than 28% and meets the flame retardant standards of UL 94 V-O
- **Orientation:** Upright, side or end mounting are recommended
- **Shelf life:** < 2% self-discharge per month at 77°F allows 6 months shelf life before boosting is required



HIGHLITE FLX

FIAMM FLX range

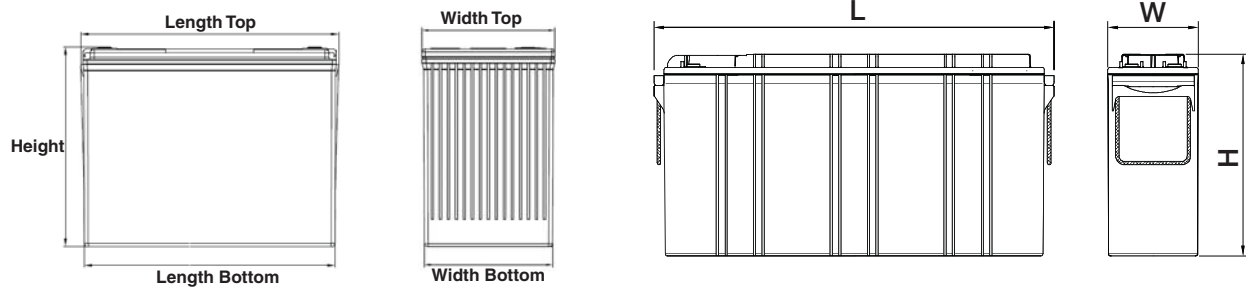
BATTERY TYPE	NOMINAL VOLTAGE (V)	CONSTANT POWER Watts per cell at 77°F	CAPACITY (Ah) at 77°F	DIMENSIONS (in.)			WEIGHT (lbs)	TERMINALS
		15 min to 1.67 VPC	20 hrs to 1.75 VPC	Top Length/ Bottom Length	Top Width/ Bottom Width	Height		
12 FLX 100	12	101	28.6	6.53/6.42	5.16/5.07	6.77	21.4	10/32 - UNF
12 FLX 150	12	152	44.0	7.78/7.67	6.48/6.37	6.65	30.6	10/32 - UNF
12 FLX 200	12	225	60.5	9.06/8.90	5.43/5.34	8.35	39.2	1/4" - 20
12 FLX 300	12	340	82.5	10.27/10.16	6.85/6.57	8.58	58.3	1/4" - 20
12 FLX 350	12	390	99.0	11.87/11.76	6.85/6.57	8.58	67.5	1/4" - 20
12 FLX 400	12	415	110	13.31/12.74	6.85/6.57	8.46	73.3	1/4" - 20
12 FLX 500	12	502	132	13.31/12.74	6.85/6.57	10.87	93.6	1/4" - 20
12 FLX 540	12	570	154	13.31/12.74	6.85/6.57	10.87	98.0	1/4" - 20
12 FLX 700	12	702	198	21.97/20.98	4.96/4.92	12.64	134	Female M8

DISCHARGE WATTS PER CELL TO 1.67 V/CELL AT 77°F

BATTERY TYPE	MINUTES							
	5	10	15	20	30	45	60	90
12 FLX 100	186	131	101	83	61	42	35	24
12 FLX 150	279	196	152	124	92	63	52	36
12 FLX 200	400	300	225	180	140	100	83	58
12 FLX 300	570	445	340	278	221	161	122	84
12 FLX 350	660	520	390	315	232	175	138	97
12 FLX 400	740	550	415	342	262	195	156	112
12 FLX 500	814	613	502	418	318	232	181	128
12 FLX 540	910	740	570	485	355	262	215	152
12 FLX 700	1060	855	702	577	434	318	256	178

Electrical Characteristics

- ✦ FLOAT VOLTAGE CHARGE AT 77°F: 13.62 V/bloc
- ✦ FLOAT VOLTAGE COMPENSATION WITH TEMPERATURE: -8.3 mV/°F per bloc
- ✦ TERMINAL TORQUE VALUE: 10/32 UNF = 44 - 53 in.lbs; 1/4" - 20 = 88 - 106 in.lbs; Female M8 = 88 - 106 in.lbs



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Industrial Batteries