

FIAMM



HIGHLITE batteries have been specifically designed to give optimal standby performance for applications requiring high-rate discharges. FIAMM **HIGHLITE** batteries are Valve Regulated Maintenance Free types with the electrolyte absorbed in microporous glass fiber separators. **HIGHLITE** batteries can be installed in cabinets or on racks and minimum installation space is required due to the high energy density characteristics of this range.

FIAMM operates a program of continuous improvement investing in manufacturing processes, equipment and technology. FIAMM's Standby Battery manufacture conforms to ISO 9001 and ISO 14001 quality assurance. Our continuous investment in battery technology is reflected by means of premium products that are of the highest quality and reliability.

HIGHLITE

FLB RANGE

TECHNICAL FEATURES

- ▶ **Plates and Grids:** plates and grids designed for optimal short rate discharges
- ▶ **Separators:** microporous glass mat allow recombination and fully absorb the electrolyte
- ▶ **Terminals:** threaded female M5/M6/M8 post terminals provide for high conductivity, maximum torque retention and easy installation
- ▶ **Post Seals:** state-of-the-art post seals prevent acid seepage over a wide temperature range.
- ▶ **Safety Valve:** each cell has its own one-way valve
- ▶ **Flame Arrestor Device:** expels excess gas while preventing any errant spark or flame from entering the battery
- ▶ **Container and Cover:** ABS flame retardant plastic in accordance with flame retardancy standard IEC 707 FV0 and UL 94 V0 (LOI greater than 28%). Standard ABS is available under request

APPLICABLE STANDARDS

- ▶ IEC 60896 Part 21-22
- ▶ BS 6290 Part 4
- ▶ Eurobat Guide - 10-12 years "High Performance"



PRODUCT FEATURES

- ▶ High Performance
- ▶ Long Life
- ▶ Safe
- ▶ Economical
- ▶ Reliable

Standby Batteries



ELECTRICAL CHARACTERISTICS

- ▶ **FLOAT VOLTAGE CHARGE AT 20°C:** 13.62 V/bloc (2.27 V/bloc)
- ▶ **FLOAT VOLTAGE COMPENSATION WITH TEMPERATURE:** -15 mV/°C per bloc
- ▶ **SELF-DISCHARGE AT 20°C:** < 2% / month
- ▶ **TERMINAL TORQUE SETTING:** 2-3 Nm for M5/12, 3-4 Nm for M6/12, 7-9 Nm for M6/16, 10-12 Nm for M8/18

FIAMM FLB range

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY AT 20°C (Ah) 1.75 Vpc / 20 hrs	DIMENSIONS (mm)			WEIGHT (Kg)	TERMINALS
			L	W	H		
12 FLB 100	12	26	166	175	125	9.35	M5/12
12 FLB 150	12	40	197	165	170	14.0	M6/16
12 FLB 200	12	55	229	138	212	18.5	M6/16
12 FLB 250	12	70	272	166	195	23.5	M8/18
12 FLB 300	12	75	261	174	219	27.0	M8/18
12 FLB 350	12	90	302	174	219	31.0	M8/18
12 FLB 400	12	100	341	174	219	34.5	M8/18
12 FLB 450	12	115	379	174	219	38.5	M8/18
12 FLB 500	12	135	345	172	281	46.5	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	526	394	311	254	187	135	106
12 FLB 350	632	472	374	305	225	162	128
12 FLB 400	702	525	415	339	250	180	142
12 FLB 450	807	604	477	390	287	207	163
12 FLB 500	746	569	457	378	280	203	162