

LM Battery Range



HE LM BATTERY SERIES IS AN OPZS VENTED RANGE DESIGNED BY FIAMM TO MEET DIN 40736 SPECIFICATIONS.

ALL PRODUCTS HAVE BEEN DESIGNED TO PROVIDE USERS WITH A HIGHLY ROBUST PRODUCT FAMILY. THE RANGE HAS BEEN DEVELOPED FOR APPLICATIONS WHERE DISCHARGE CYCLES NEED TO BE OF THE HIGHEST LEVELS OF RELIABILITY. AS RESULT OF THIS THE RANGE EXCEEDS THE SPECIFICATION STANDARDS LAID DOWN BY THE DIN STANDARD. THIS PERFORMANCE IS THE RESULT OF A LOW ANTIMONY ALLOY PLATE WHICH PROVIDES VERY LOW WATER CONSUMPTION OVER THE LIFE OF THE PRODUCT. UNDER NORMAL FLOAT OPERATING CONDITIONS BATTERIES REQUIRE TOPPING-UP ONCE EVERY THREE YEARS. FURTHERMORE THE DESIGN HAS BEEN OPTIMIZED TO LOWER SELF-DISCHARGE DURING STORAGE. ALL OF THESE OUTSTANDING FEATURES ADD UP TO A LONGER LIFE PRODUCT WITH LOWER MAINTENANCE COSTS. LIKE ALL FIAMM LEAD-ACID BATTERIES THE LM RANGE IS ECO-FRIENDLY AND FULLY RECYCLABLE.



MAIN APPLICATIONS:











SPECIFICATIONS

The positive tubular grid is composed of a special alloy (Pb-Sb) which is die-cast to guarantee high corrosion resistance and low water consumption (1 topping up in 3 years in float conditions)

Electrolyte: sulphuric acid electrolyte with specific gravity of 1.24kg/l at 68°F

Separators have high porosity and provide very low internal resistance

Robust design thanks to high mechanical polymers properties; box made of SAN and with an ABS lid

The vent plug is made of porous flameproof material for a superior safety

A long shelf life of up to six months is possible without recharge (<2% discharge per month)

The metallic threaded insert on terminals ensures the highest conductivity and provides maximum torque retention and easy installation

Flexible connections ensure a safe link between terminals

The connecting bolt is fully insulated but with probe hole on the top to grant electrical measurements

TECHNOLOGY



THE UNIQUE FIAMM TERMINAL DESIGN PERMITS
PILLAR GROWTH DURING CELL LIFE WITHOUT
LEAKAGE. THIS FEATURES AVOID MECHANICAL
STRESS ON THE LID OF THE CELL.

THE LM RANGE HAS A DESIGN LIFE IS 20 YEARS DUE TO HIGH RELIABILITY AND COMPONENTS MANUFACTURE PROCESS.
ALL LM MODELS ARE AVAILABLE IN A DRY CHARGE VERSION.

BATTERY TYPE	REFERENCE OPZS DIN 40736	NOMINAL Capacity (Ah)	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (m0hm)	NOMINAL DIMENSION (in)			ELECTROLYTE QUANTITY	TYPICAL WEIGHT (with electrolyte)
		8H to 1.75VPC at 77°F	IEC 60896-11	IEC 60896-11	Lenght	Width	Height	(gals)	(lbs)
LM 100	2 OPzS 100	108	1250	1.824	4.06	8.11	16.54	1.11	31.0
LM 150	3 OPzS 150	162	1875	1.216	4.06	8.11	16.54	1.00	34.7
LM 200	4 OPzS 200	216	2380	0.840	4.06	8.11	16.54	0.95	38.4
LM 250	5 OPzS 250	270	2700	0.730	4.88	8.11	16.54	1.24	46.7
LM 300	6 OPzS 300	324	3240	0.608	5.71	8.11	16.54	1.43	54.7
LM 350	5 OPzS 350	390	3150	0.628	4.88	8.11	21.10	1.66	62.6
LM 420	6 OPzS 420	468	3780	0.524	5.71	8.11	21.10	1.90	72.1
LM 490	7 OPzS 490	546	4410	0.449	6.54	8.11	21.10	2.19	82.9
LM 600	6 OPzS 600	630	4560	0.447	5.71	8.11	27.99	3.22	98.9
LM 700	7 OPzS 700	735	5320	0.383	8.27	7.52	27.99	3.96	130
LM 800	8 OPzS 800	840	6100	0.335	8.27	7.52	27.99	3.41	137
LM 900	9 OPzS 900	945	6840	0.298	8.27	9.17	27.99	5.81	158
LM 1000	10 OPzS 1000	1050	7600	0.268	8.27	9.17	27.99	4.68	165
LM 1200	12 OPzS 1200	1260	9120	0.223	8.27	10.83	27.99	5.84	197
LM 1500	12 OPzS 1500	1570	10200	0.200	8.27	10.83	33.90	7.05	242
LM 1750	14 OPzS 1750	1840	11900	0.171	8.35	15.71	32.95	9.38	313
LM 1875	15 OPzS 1875	1970	12750	0.160	8.35	15.71	32.95	8.98	323
LM 2000	16 OPzS 2000	2100	13600	0.150	8.35	15.71	32.95	10.12	333
LM 2250	18 OPzS 2250	2360	15300	0.133	8.35	19.17	32.95	11.52	399
LM 2500	20 OPzS 2500	2620	17000	0.120	8.35	19.17	32.95	12.79	413
LM 3000	24 OPzS 3000	3150	20400	0.100	8.35	22.68	32.95	13.90	489
LM 3500	28 OPzS 3500	3500	23800	0.086	8.35	22.68	32.95	14.58	547

ELECTRICAL CHARACTERISTICS

Float Voltage: 2.23 V/cell at 68°F Boost Voltage: 2.40 V/cell

Float Voltage Compensation with Temperature: -1.39mV/cell/°C

Self-Discharge at 68°F: <2%/month

STANDARDS

DIN 40736 - specification OPzS cell DIN 43539T5 - deep discharge DIN 40740 - electrolyte level indicator

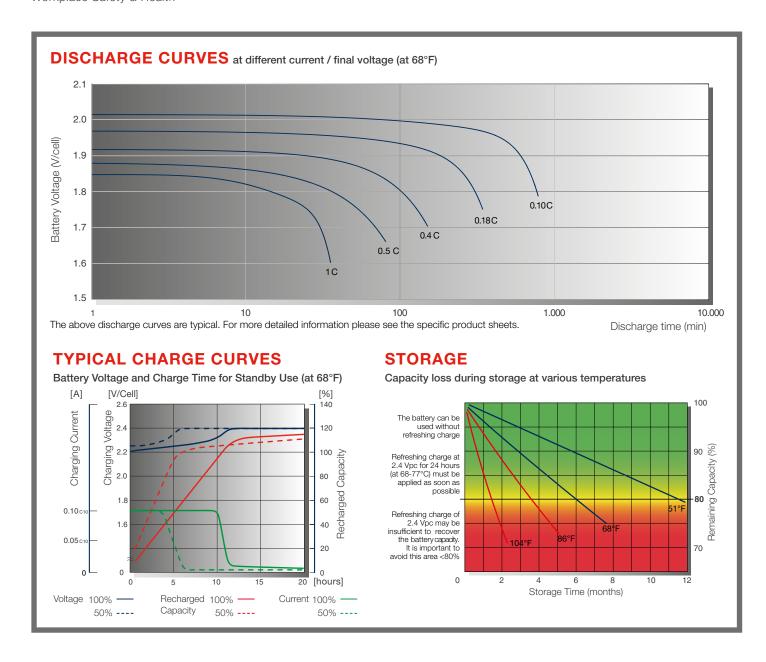
IEC 60896 Part 11 - vented types requirements & tests

CERTIFICATIONS

ISO 9001 Quality Management System ISO 14001 Environmental Management System ISO 45001 Workplace Safety & Health

ACCESSORIES

Recombination plug Filtering plugs to DIN standard Racks for battery installation (standard and anti-seismic) Monitoring system





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