



# LM range



FIAMM's **LM** battery range can be used in standby mode or for duties requiring repeated charging and discharging operations (cycling applications). The **LM** battery range is specially designed for difficult environments and special applications such as solar and long discharge rates. Its tubular positive plates, a high reliability post seal and fully insulated connections among cells guarantee a long life even in the worst operating conditions.

FIAMM has a program of continuous improvement investing in manufacturing processes, equipment and technology. FIAMM's Standby Battery manufacture is in compliance with 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.

FIAMM's **LM** tubular vented lead acid batteries are the ideal energy source for many different standby applications.

## TECHNICAL FEATURES

- ▶ **Positive tubular plates** with a special lead-alloy to reduce frequency of topping-up intervals
- ▶ **Negative plates** are of pasted grid type
- ▶ **Electrolyte:** high purity sulphuric acid solution with a specific gravity of 1.24 (+/- 0.01) at 20°C
- ▶ **Separators** are made of high quality micro porous material
- ▶ **Containers** are constructed with transparent, impact and acid resistant plastic (SAN) material
- ▶ **Safety Vents:** cells incorporate flame retardant ceramic plugs that filter out any drops of electrolyte from the escaping gases preventing any errant spark or flame from entering the battery
- ▶ **Terminals:** female threaded terminal (M10) ensures perfect contact and a low resistance with the flexible cable connectors
- ▶ **Post seals:** high integrity post seal design to prevent electrolyte leakage and terminal corrosion
- ▶ **Connectors:** flexible, fully insulated cable connectors screwed to the terminal with an insulated screw having a probe hole on the top for electric measurement

## APPLICABLE STANDARDS

- ▶ DIN 40736 part 1
- ▶ IEC 60896 part 11



## PRODUCT FEATURES

- ▶ Reliable
- ▶ Long life
- ▶ Low maintenance
- ▶ Excellent for cycling applications

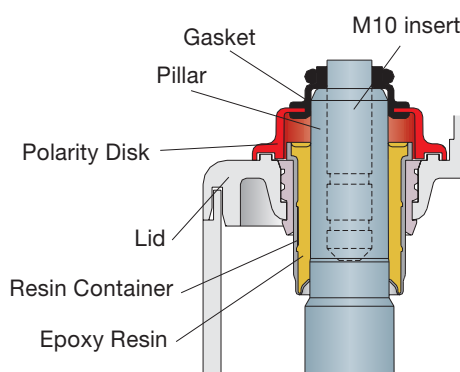


DIN 40736 STANDARD TYPE NOMINAL CAPACITY 10 hrs, 1.80 VPC	CELL TYPE	CAPACITY Ah at 20°C	WEIGHT (kg)	ELECTROLYTE	DIMENSIONS (mm)			TERMINALS
		10 hrs to 1.80 VPC	with electrolyte	(Litres)	Length	Width	Height	+ / -
2 OPzS 100 LA 100	LM 100	108	14	4.0	103	206	420	1 / 1
3 OPzS 150 LA 150	LM 150	162	16	3.7	103	206	420	1 / 1
4 OPzS 200 LA 200	LM 200	216	18	3.4	103	206	420	1 / 1
5 OPzS 250 LA 250	LM 250	270	21	4.6	124	206	420	1 / 1
6 OPzS 300 LA 300	LM 300	324	25	5.2	145	206	420	1 / 1
5 OPzS 350 LA 350	LM 350	390	29	5.9	124	206	536	1 / 1
6 OPzS 420 LA 420	LM 420	468	35	7.0	145	206	536	1 / 1
7 OPzS 490 LA 490	LM 490	546	40	7.8	166	206	536	1 / 1
6 OPzS 600 LA 600	LM 600	630	47	10.1	145	206	711	1 / 1
7 OPzS 700 LA 700	LM 700	735	60	14.0	210	191	711	2 / 2
8 OPzS 800 LA 800	LM 800	840	63	13.6	210	191	711	2 / 2
9 OPzS 900 LA 900	LM 900	945	74	18.0	210	233	711	2 / 2
10 OPzS 1000 LA 1000	LM 1000	1050	77	17.0	210	233	711	2 / 2
12 OPzS 1200 LA 1200	LM 1200	1260	90	20.2	210	275	711	2 / 2
12 OPzS 1500 LA 1500	LM 1500	1680	113	22.6	210	275	861	2 / 2
14 OPzS 1750 LA 1750	LM 1750	1960	148	35.5	212	399	837	3 / 3
15 OPzS 1875 LA 1875	LM 1875	2100	152	34.0	212	399	837	3 / 3
16 OPzS 2000 LA 2000	LM 2000	2240	156	32.1	212	399	837	3 / 3
18 OPzS 2250 LA 2250	LM 2250	2520	188	43.6	212	487	837	4 / 4
20 OPzS 2500 LA 2500	LM 2500	2800	196	40.4	212	487	837	4 / 4
24 OPzS 3000 LA 3000	LM 3000	3360	229	50.9	212	576	837	4 / 4
28 OPzS 3500 LA 3500	LM 3500	3500	245	46.0	212	576	837	4 / 4

## ELECTRICAL CHARACTERISTICS

- ▶ **NOMINAL VOLTAGE:** 2 V
- ▶ **FLOAT VOLTAGE AT 20°C:** 2.23 V/cell
- ▶ **BOOST RECHARGE:** 2.4 V/cell
- ▶ **SELF DISCHARGE:** < 2% a month at 20°C

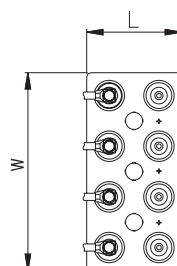
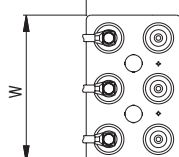
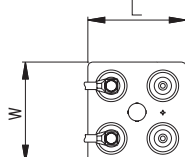
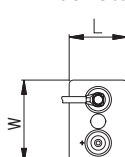
## HIGH RELIABILITY POST SEAL



2 OPzS 100  
3 OPzS 150  
4 OPzS 200  
5 OPzS 250  
6 OPzS 300  
5 OPzS 350  
6 OPzS 420  
7 OPzS 490  
6 OPzS 600

7 OPzS 700  
8 OPzS 800  
9 OPzS 900  
10 OPzS 1000  
12 OPzS 1200  
12 OPzS 1500

14 OPzS 1750  
15 OPzS 1875  
16 OPzS 2000



18 OPzS 2250  
20 OPzS 2500  
24 OPzS 3000  
28 OPzS 3500

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