



# 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 lead-antimony (1.8%) 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 896 part 1



## PRODUCT FEATURES

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



# Standby Batteries

# LM range

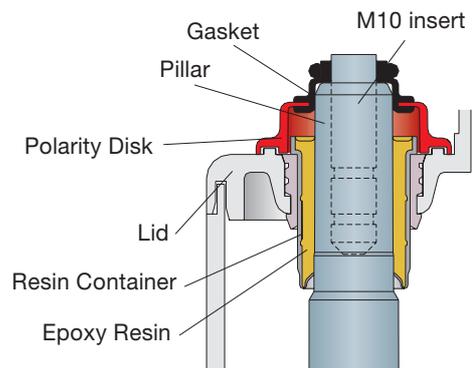
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CELL TYPE	DIN TYPE (DIN 40742 STANDARD)	CAPACITY	WEIGHT	ELECTROLYTE	DIMENSIONS (mm)			TERMINALS
		Ah at 20°C 10 hrs to 1.80 VPC	(kg) with electrolyte	(Litres)	Length	Width	Height	+ / -
LM 100	2 OPzS 100	100	14	4.0	103	206	420	1 / 1
LM 150	3 OPzS 150	150	16	3.7	103	206	420	1 / 1
LM 200	4 OPzS 200	200	18	3.4	103	206	420	1 / 1
LM 250	5 OPzS 250	250	21	4.6	124	206	420	1 / 1
LM 300	6 OPzS 300	300	25	5.2	145	206	420	1 / 1
LM 350	5 OPzS 350	350	29	5.9	124	206	536	1 / 1
LM 420	6 OPzS 420	420	35	7.0	145	206	536	1 / 1
LM 490	7 OPzS 490	490	40	7.8	166	206	536	1 / 1
LM 600	6 OPzS 600	600	47	10.1	145	206	711	1 / 1
LM 700	7 OPzS 700	700	60	14.0	210	191	711	2 / 2
LM 800	8 OPzS 800	800	63	13.6	210	191	711	2 / 2
LM 900	9 OPzS 900	900	74	18.0	210	233	711	2 / 2
LM 1000	10 OPzS 1000	1000	77	17.0	210	233	711	2 / 2
LM 1200	12 OPzS 1200	1200	90	20.2	210	275	711	2 / 2
LM 1500	12 OPzS 1500	1500	113	22.6	210	275	861	2 / 2
LM 1750	14 OPzS 1750	1750	148	35.5	212	399	837	3 / 3
LM 1875	15 OPzS 1875	1875	152	34.0	212	399	837	3 / 3
LM 2000	16 OPzS 2000	2000	156	32.1	212	399	837	3 / 3
LM 2250	18 OPzS 2250	2250	188	43.6	212	487	837	4 / 4
LM 2500	20 OPzS 2500	2500	196	40.4	212	487	837	4 / 4
LM 3000	24 OPzS 3000	3000	229	50.9	212	576	837	4 / 4
LM 3500	28 OPzS 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

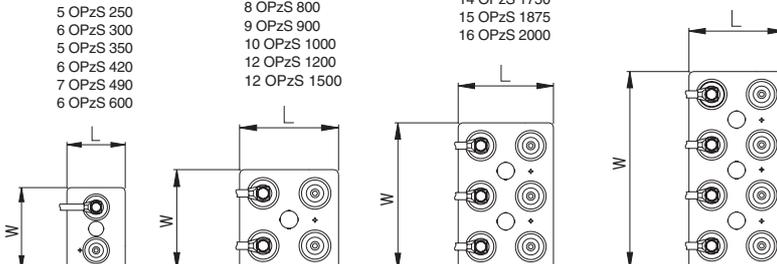
## HIGH RELIABILITY POST SEAL



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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