

FIAMM

Industrial Batteries

ENDURLITE

SMG

series



The FIAMM **SMG** range of valve regulated lead acid stationary batteries combine the benefits of recombination technology (i.e. virtually no maintenance due to very low gas emissions) plus the advantages of conventional vented batteries with positive tubular plates (i.e. long life and excellent cycling capability).

FIAMM has a program of continuous improvement investing in manufacturing processes, equipment and technology.

FIAMM's Standby Battery manufacture conforms to ISO 9001 quality assurance. Our continuous investment in battery technology is reflected by means of premium products that are of the highest quality and reliability.

FIAMM **SMG** valve regulated lead acid batteries are the ideal energy source for many different standby applications.

Technical Features

Tubular positive plates incorporating a special grid construction, pressure cast from antimony-free alloy, with highly porous gauntlets that retain the active material

Pasted negative plates designed to have service lives consistent with the positive plates

Electrolyte immobilised in a gel structure

Separators with extremely high porosity and low internal resistance

Containers and lids made of plastic (ABS) material. Also available in ABS flame retardant material as an option (according to IEC 707 FV0)

Easy installation. FIAMM SMG cells are normally installed in an upright position on steel stands.

One way relief valve opens at low pressure and is fitted with a flame arrestor device

Terminals: female treated terminal (M10) ensure 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 electrical measurement

Applicable Standards

DIN 40742

IEC 60896 Part 21 - 22

Eurobat Guide - 12 years and longer "long life"

Product Features

- + Safe
- + Long life (15 years design life)
- + Versatile
- + Reliable
- + Minimal gassing

Standby Products

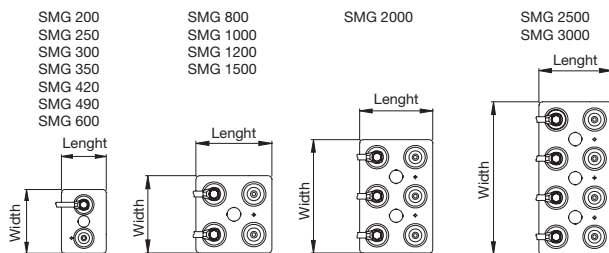
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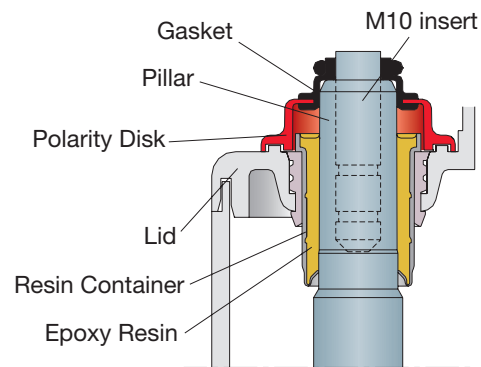
DIN 40742		CELL TYPE	CAPACITY (AH) Ah at 20°C				WEIGHT (kg)	DIMENSIONS (mm)		
Type	Nominal Capacity 10 hrs, 1.80 VPC		10 hrs to 1.80 VPC	5 hrs to 1.77 VPC	3 hrs to 1.75 VPC	1 hr to 1.67 VPC		Length	Width	Height
4 OPzV 200	200	SMG 200	204	172	150	106	17	103	206	406
5 OPzV 250	250	SMG 250	255	215	188	133	21	124	206	406
6 OPzV 300	300	SMG 300	306	258	225	159	24	145	206	406
5 OPzV 350	350	SMG 350	357	300	263	185	26	124	206	523
6 OPzV 420	420	SMG 420	429	360	315	222	32	145	206	523
7 OPzV 490	490	SMG 490	500	420	368	259	36	166	206	523
6 OPzV 600	600	SMG 600	612	516	450	312	45	145	206	698
8 OPzV 800	800	SMG 800	816	688	600	416	63	210	191	698
10 OPzV 1000	1000	SMG 1000	1020	860	750	520	78	210	233	698
12 OPzV 1200	1200	SMG 1200	1251	1032	900	624	88	210	275	698
12 OPzV 1500	1500	SMG 1500	1530	1260	1116	744	104	210	275	848
16 OPzV 2000	2000	SMG 2000	2040	1680	1488	992	140	214	399	824
20 OPzV 2500	2500	SMG 2500	2550	2100	1860	1240	176	214	497	824
24 OPzV 3000	3000	SMG 3000	3060	2520	2232	1488	205	214	576	824

Electrical Characteristics

- ✦ NOMINAL VOLTAGE: 2 V
- ✦ FLOAT VOLTAGE AT 20°C: 2.23 V/cell
- ✦ BOOST RECHARGE: maximum voltage of 2.4 V/cell with the maximum current of 0.25 x C₁₀ (A)
- ✦ SELF DISCHARGE AT 20°C: < 2% a month



High Reliability Post Seal



FIAMM reserves the right to change or revise without notice any information or detail given in this publication
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