



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



SMG range

2006
11.04

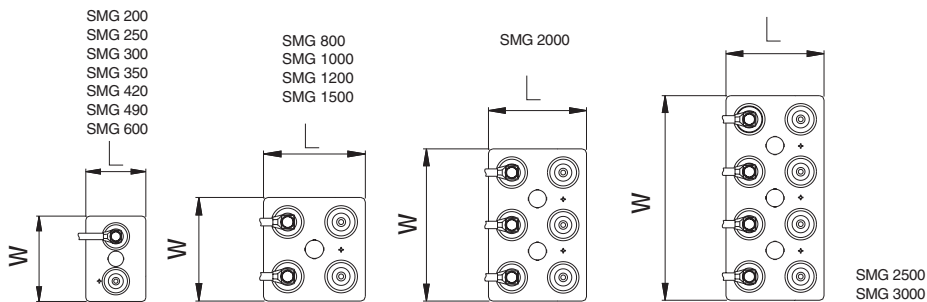
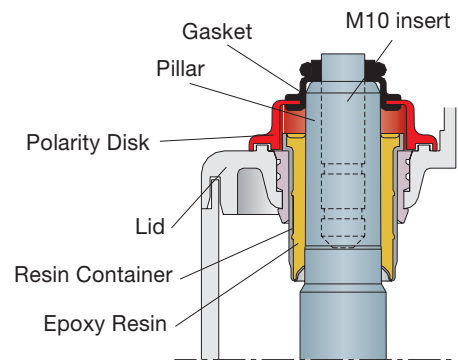
FIAMM SMG range

CELL TYPE	NORME DIN 40742		CAPACITY AT 20°C (Ah)			DIMENSIONS mm			WEIGHT kg
	DESIGNATION	NOMINAL CAPACITY (Ah)	5 hrs to 1.77 VPC	3 hrs to 1.75 VPC	1 hr to 1.67 VPC	Length	Width	Height	
SMG 200	4 OPzV 200	200	172	150	106	103	206	398	18
SMG 250	5 OPzV 250	250	215	188	133	124	206	398	22
SMG 300	6 OPzV 300	300	258	225	159	145	206	398	26
SMG 350	5 OPzV 350	350	300	263	185	124	206	514	29
SMG 420	6 OPzV 420	420	360	315	222	145	206	514	34
SMG 490	7 OPzV 490	490	420	368	259	166	206	514	39
SMG 600	6 OPzV 600	600	516	450	312	145	206	689	48
SMG 800	8 OPzV 800	800	688	600	416	210	191	689	66
SMG 1000	10 OPzV 1000	1000	860	750	520	210	233	689	80
SMG 1200	12 OPzV 1200	1200	1032	900	624	210	275	689	95
SMG 1500	12 OPzV 1500	1500	1260	1116	744	210	275	840	121
SMG 2000	16 OPzV 2000	2000	1680	1488	992	214	399	816	163
SMG 2500	20 OPzV 2500	2500	2100	1860	1240	214	497	816	208
SMG 3000	24 OPzV 3000	3000	2520	2232	1488	214	576	816	243

ELECTRICAL CHARACTERISTICS

- ▶ **NOMINAL VOLTAGE:** 2 V
- ▶ **FLOAT VOLTAGE CHARGE AT 20°C:** 2.23 V/cell
- ▶ **BOOST RECHARGE:** maximum voltage of 2.4 V/cell with the maximum current of $0.25 \times C_{10}$ (A)
- ▶ **SELF DISCHARGE AT 20°C:** < 2% a month

HIGH RELIABILITY POST SEAL



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www.fiamm.com