



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
08.08

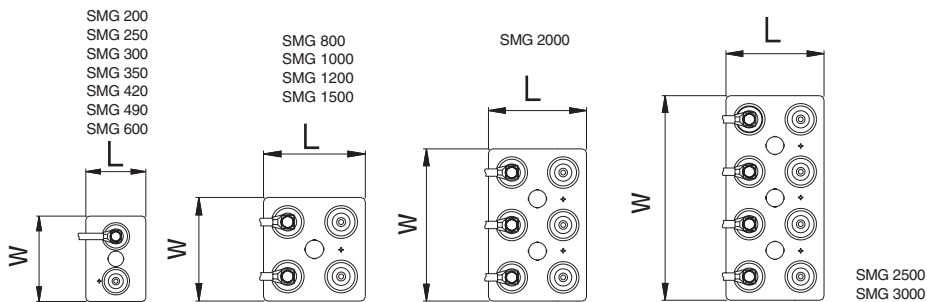
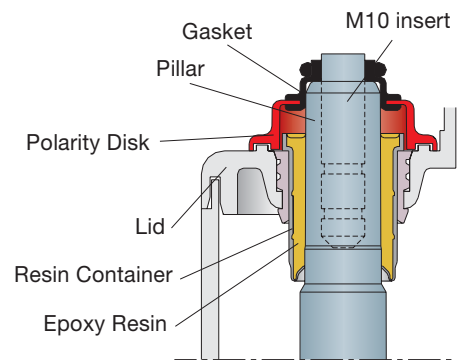
FIAMM SMG range

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

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 x C₁₀ (A)
- ▶ **SELF DISCHARGE AT 20°C:** < 2% a month

HIGH RELIABILITY POST SEAL



FIAMM
www.fiamm.com