



SMG

range



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

FIAMM **SMG** range is best applied in:

- TELECOMMUNICATIONS**
- POWER GENERATION BACKUP SYSTEMS**
- SOLAR ENERGY SYSTEMS**
- WIND ENERGY SYSTEMS**
- COMPUTER STAND-BY**
- ALARM SYSTEMS**
- EMERGENCY LIGHTING**

TECHNICAL CHARACTERISTICS

- ▶ Tubular positive plate incorporating a special grid construction, pressure cast from antimony-free alloy, with highly porous gauntlets that retain the active material.
- ▶ Pasted negative plate with a service life compatible with the positive plate.
- ▶ Electrolyte immobilised in a gel structure.
- ▶ Extremely high separators and with low internal resistance.
- ▶ Containers and lids made of plastic (ABS) material. Also available, upon request, in ABS flame retardant material (according to IEC 707, 1981, method FV, category FV0 and UL 94 class VO).
- ▶ Easy installation: FIAMM SMG cells are normally installed in upright position on steel stands. When necessary they can be arranged for mounting in a horizontal position.
- ▶ Flexible cables intercell connectors fixed by insulated bolts.
- ▶ One way relief valves which open at low pressure and are fitted with flame arrestors.

APPLICABLE STANDARDS

- ▶ DIN 40742
- ▶ IEC 896-2 Part. 2
- ▶ CEI EN 60896-2
- ▶ Eurobat Guide - 12 years and longer "long life".



PRODUCT FEATURES

- ▶ Safe
- ▶ Long life
- ▶ Versatile
- ▶ Reliable
- ▶ Maintenance free
- ▶ Minimum gassing

Industrial Standby Batteries

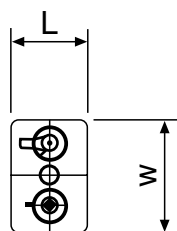


FIAMM SMG range

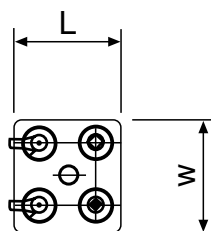
| CELL TYPE | EQUIVALENT DIN STANDARD DESIGNATION | CAPACITY AT 20°C in Ah at 20°C | | | | DIMENSIONS mm | | | WEIGHT (Kg) |
|-----------|---|--------------------------------|-------------------------|-------------------------|------------------------|---------------|-------|--------|----------------|
| | | 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 | |
| SMG 200 | 4 OPzV 250 | 200 | 172 | 150 | 106 | 103 | 206 | 398 | 18,4 |
| SMG 250 | 5 OPzV 250 | 250 | 215 | 187,5 | 132,5 | 124 | 206 | 398 | 22,2 |
| SMG 300 | 6 OPzV 300 | 300 | 258 | 225 | 159 | 145 | 206 | 398 | 26 |
| SMG 350 | 5 OPzV 350 | 350 | 300 | 262,5 | 185 | 124 | 206 | 514 | 29,2 |
| SMG 420 | 6 OPzV 420 | 420 | 360 | 315 | 222 | 145 | 206 | 514 | 34,1 |
| SMG 490 | 7 OPzV 490 | 490 | 420 | 367,5 | 259 | 166 | 206 | 514 | 39,1 |
| SMG 600 | 6 OPzV 600 | 600 | 516 | 450 | 312 | 145 | 206 | 689 | 48,2 |
| 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 | 212 | 397 | 816 | 162 |
| SMG 2500 | 20 OPzV 2500 | 2500 | 2100 | 1860 | 1240 | 212 | 487 | 816 | 203 |
| SMG 3000 | 24 OPzV 3000 | 3000 | 2520 | 2232 | 1488 | 212 | 576 | 817 | 240 |

ELECTRICAL CHARACTERISTICS

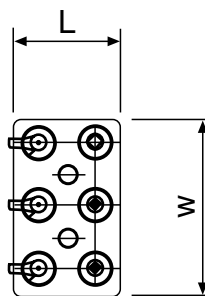
- ▶ **NOMINAL CELL VOLTAGE:** 2 Volt.
- ▶ **FLOAT CHARGE:** 2,23 V/cell a 20°C.
- ▶ **RECOMMENDED RECHARGE:** 2,23 V/Cell.
- ▶ **FAST RECHARGE:** maximum voltage of 2,4 V/cell with the maximum current of 0,25 C₁₀ Amps.
- ▶ **SELF DISCHARGE:** at 20°C <2% a month.



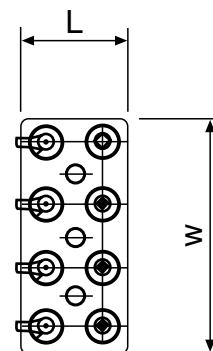
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SMG 350



SMG 800
SMG 1000
SMG 1200
SMG 1500



SMG 2000



SMG 2500
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