

Applications and Key Benefits

- + OPzV cells - 200Ah to 3000Ah nominal capacity
ideal for:
 - Telecom BTS
 - Emergency lighting and Security
 - Trains, Railway and Airports
 - Power plants and power distribution control and monitoring systems
- + Tubular positive plates
- + Electrolyte immobilized in gel
- + Excellent cycling performance, also at elevated temperature
- + Deep discharge proof
- + 18 years design life
- + Minimal gassing
- + Non-spillable
- + Maintenance free without topping-up
- + 100% Recyclable

Applicable Standards

- DIN 40742 - specification OPzV cells
- DIN 43539T5 - deep DOD cycling and deep discharge recovery
- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- Eurobat "Long Life" - 12 years and longer

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- OHSAS 18001 Workplace Safety and Health

Technical Features

- Tubular positive plates, pressure cast from high tin / low calcium alloy
- Electrolyte immobilized in gel structure
- Highly porous gauntlets retain the active material
- Pasted negative plates designed to have service lives consistent with the positive plates
- Separators with extremely high porosity and low internal resistance
- Standard ABS plastic
(Optional flame retardant plastics ABS IEC 707 FV0 and UL 94 V0 with LOI greater than 28%)
- Container and lid designed for unsurpassed mechanical strength made of thick walled plastics
- Threaded female M10 terminal posts guarantee highest conductivity, maximum torque retention and easy installation
- High integrity post seal design to prevent electrolyte leakage and terminal corrosion
- Flame arrestors prevent sparks or flames from entering the battery
- Cells equipped with one-way safety valves to allow excess gas to escape when overcharging
- < 2% self-discharge per month at 20°C allows 6 months shelf life
- Installation in vertical or horizontal position
- Flexible, fully insulated cable connectors with insulated screw with probe hole on the top for electrical measurement



ENDURLITE

SMG OPzV

FIAMM SMG OPzV range

| DIN 40742 Type | MODEL | CAPACITY (Ah) at 20°C | SHORT CIRCUIT CURRENT (A) | INTERNAL RESISTANCE (mohm) | WEIGHT (kg) | DIMENSIONS (mm) | | |
|-------------------|----------|--------------------------|------------------------------|-------------------------------|----------------|-----------------|-------|--------|
| | | 10 hrs to 1.80 VPC | IEC 60896-21 | IEC 60896-21 | | Length | Width | Height |
| 4 OPzV 200 | SMG 200 | 200 | 2200 | 0.93 | 16.8 | 206 | 103 | 388 |
| 5 OPzV 250 | SMG 250 | 250 | 2700 | 0.74 | 20 | 206 | 124 | 388 |
| 6 OPzV 300 | SMG 300 | 300 | 3500 | 0.58 | 23 | 206 | 145 | 388 |
| 5 OPzV 350 | SMG 350 | 350 | 3600 | 0.56 | 26 | 206 | 124 | 504 |
| 6 OPzV 420 | SMG 420 | 420 | 3900 | 0.52 | 31 | 206 | 145 | 504 |
| 7 OPzV 490 | SMG 490 | 490 | 4000 | 0.51 | 35 | 206 | 166 | 504 |
| 6 OPzV 600 | SMG 600 | 600 | 4200 | 0.48 | 43 | 206 | 145 | 679 |
| 8 OPzV 800 | SMG 800 | 800 | 5100 | 0.40 | 59 | 210 | 191 | 679 |
| 10 OPzV 1000 | SMG 1000 | 1000 | 6300 | 0.32 | 72 | 233 | 210 | 679 |
| 12 OPzV 1200 | SMG 1200 | 1200 | 7600 | 0.27 | 84 | 275 | 210 | 679 |
| 12 OPzV 1500 | SMG 1500 | 1500 | 9500 | 0.216 | 103 | 275 | 210 | 829 |
| 16 OPzV 2000 | SMG 2000 | 2000 | 12000 | 0.162 | 137 | 397 | 212 | 805 |
| 20 OPzV 2500 | SMG 2500 | 2500 | 15000 | 0.129 | 171 | 487 | 212 | 805 |
| 24 OPzV 3000 | SMG 3000 | 3000 | 18000 | 0.108 | 206 | 576 | 212 | 805 |

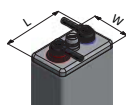
Note: dimension may have a natural tolerance of ± 2 mm.

Electrical Characteristics

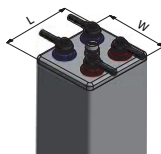
- ✦ FLOAT VOLTAGE CHARGE AT 20 °C : 2.25 V/cell
- ✦ BOOST CHARGE : 2.4 V/cell
- ✦ MAXIMUM CHARGE CURRENT : 0.25 C_{10A} (i.e.:for a 100Ah cell maximum charge current is 25 Amps)
- ✦ FLOAT VOLTAGE TEMPERATURE COMPENSATION : - 2.5mV/°C/cell
- ✦ SELF-DISCHARGE AT 20 °C : < 2% / month
- ✦ WARNING: in order for the warranty to be valid in all critical , frequent discharge and hybrid applications, please coordinate with Fiamm Group to clarify required operating and charging settings

Dimensions

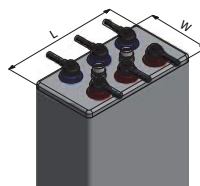
4 OPzV 200
5 OPzV 250
6 OPzV 300
5 OPzV 350
6 OPzV 420
7 OPzV 490
6 OPzV 600



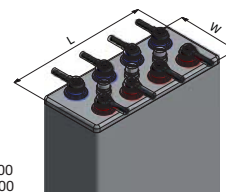
8 OPzV 800
10 OPzV 1000
12 OPzV 1200
12 OPzV 1500



16 OPzV 2000



20 OPzV 2500
24 OPzV 3000



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