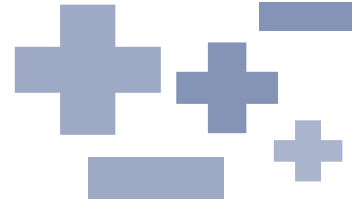


FIAMM

Industrial Batteries

ENDURLITE

SMG/F



Applications and Key Benefits

- + Designed for front terminal Telecom application ideal for:
 - off-grid and hybrid TLC installations
 - use in areas with unreliable power supply
 - front terminal compact battery layout
- + Tubular positive plates
- + Electrolyte immobilized in gel
- + Excellent cycling performance, also at elevated temperature
- + Deep discharge proof
- + 15 years design life
- + Front terminal design reduces installation time and facilitates maintenance
- + For 23 inch power racks / cabinets
- + Minimal gassing and fit for remote venting
- + Non-spillable maintenance free without topping-up
- + Non-hazardous for air/sea/rail/ road transportation
- + 100% Recyclable



Applicable Standards

- DIN 43539T5 - deep discharge
- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- Eurobat "Long Life" - 12 years and longer
- OHSAS 18001 - Workplace Safety & Health

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

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
- ABS IEC 707 FV0 and UL 94 V0 flame retardant plastics (LOI greater than 28%)
- Container and lid designed for unsurpassed mechanical strength made of thick walled plastics
- Threaded female M8 terminal posts guarantee highest conductivity, maximum torque retention and easy installation
- Front terminals for reduced headspace, higher energy density and compact battery layout
- 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 that open at 5 PSI and close at 3 PSI to allow excess gas to escape when overcharging
- < 2% self-discharge per month at 20°C allows 6 months shelf life
- Supplied with rigid inter-cell connectors and connector cover
- Remote venting system available for applications which require limited gassing to be vented externally

ENDURLITE

SMG/F

FIAMM SMG/F range

| BATTERY TYPE | NOMINAL VOLTAGE (V) | CAPACITY (Ah) | SHORT CIRCUIT CURRENT (A) | INTERNAL RESISTANCE (mohm) | DIMENSIONS (mm) | | | WEIGHT (kg) | TERMINAL TYPE |
|--------------|---------------------|----------------------------------|---------------------------|----------------------------|-----------------|--------|--------|-------------|---------------|
| | | Ah at 20°C 10 hrs to 1.80 VPC | IEC 60896-21 | IEC 60896-21 | Width | Length | Height | | |
| 12SMG100/F | 12 | 100 | 1500 | 7.8 | 126 | 560 | 270 | 44 | Female M8 |

Note: dimensions may have a natural tolerance of ± 2 mm

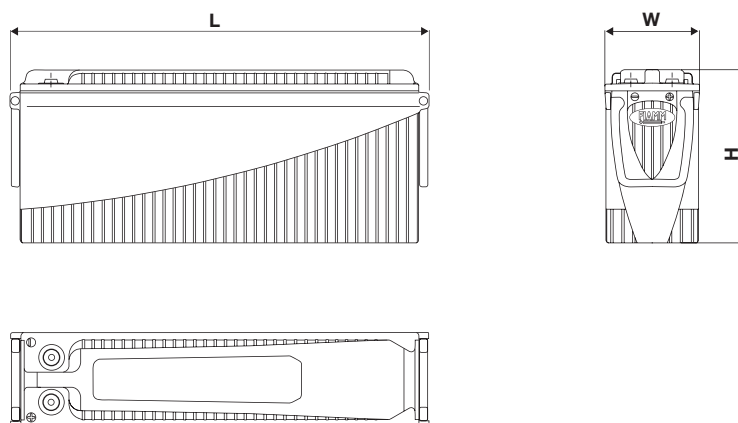
Discharge data at 20°C

| BATTERY TYPE | NOMINAL CAPACITY 1.80 VPC 10 hours, 20°C | DISCHARGE TIME (hours) end voltage (V) | | | | | | | | | |
|--------------|------------------------------------------------|----------------------------------------|------|---------------|------|---------------|------|---------------|------|----------------|------|
| | | 1 1.65 VPC | | 2 1.70 VPC | | 3 1.75 VPC | | 5 1.80 VPC | | 10 1.80 VPC | |
| | | W/cell | A | W/cell | A | W/cell | A | W/cell | A | W/cell | A |
| 12SMG100/F | 100 | 111 | 61.4 | 65.7 | 35.7 | 47.2 | 25.3 | 31.2 | 16.5 | 19.1 | 10.0 |

Electrical Characteristics

- + FLOAT VOLTAGE CHARGE AT 20°C: 13.5 V/bloc (2.25 V/cell)
- + BOOST RECHARGE VOLTAGE: 14.1V/bloc (2.35V/cell) with maximum charge current: $0.25 \times C_{10}$ (A)
- + FLOAT VOLTAGE TEMPERATURE COMPENSATION: -2.5 mV/°C/cell

Dimensions



FIAMM S.p.A.
Industrial Batteries
www.fiamm.com
email:info.standby@fiamm.com

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