

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
- + Excellent for deep DOD cycling and deep discharge recovery (DIN43539T5)
- + 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 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
- UL Recognized

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
- 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 12V blocs

FIAMM SMG range

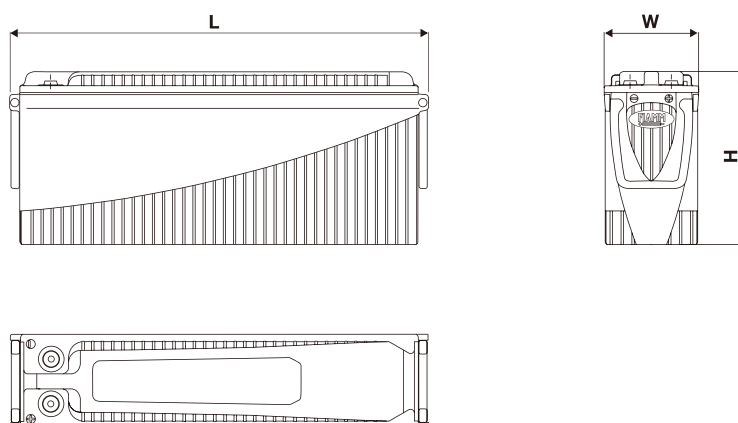
BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY (Ah)	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mohm)	DIMENSIONS (mm)			WEIGHT (kg)	TERMINAL TYPE
		10 hrs to 1.80 VPC	IEC 60896-21	IEC 60896-21	Width	Length	Height		
12SMG100	12	100	1500	7.8	126	560	270	44	Female M8
12SMG130	12	130	1470	8.6	126	560	320	54	Female M8

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

Electrical Characteristics

- + FLOAT VOLTAGE CHARGE AT 20-25°C: Standby use 13.5-13.62 V/bloc (2.25-2.27 V/cell)
- + BOOST CHARGE: 14.1 V/bloc (2.35 V/cell)
- + MAXIMUM CHARGE CURRENT: 0.25 C10 A (i.e. for a 100Ah bloc maximum charge current is 25 Amps)
- + FLOAT VOLTAGE TEMPERATURE COMPENSATION: -15 mV/°C/bloc
- + 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



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

FIAMM

Industrial Batteries