

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 - OPzV technology
- + 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
- + Completely 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
- UL Recognized

FIAMM Manufacturing

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

Model	Nominal Voltage (V)	Capacity (Ah) at 20°C	Short Circuit Current (A)	Internal Resistance (mOhm)	Dimensions (mm)			Weight (kg)	Terminal Type
		10 hrs to 1.80 VPC	IEC 60896 21-22	IEC 60896 21-22	Length	Width	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 ± 2mm

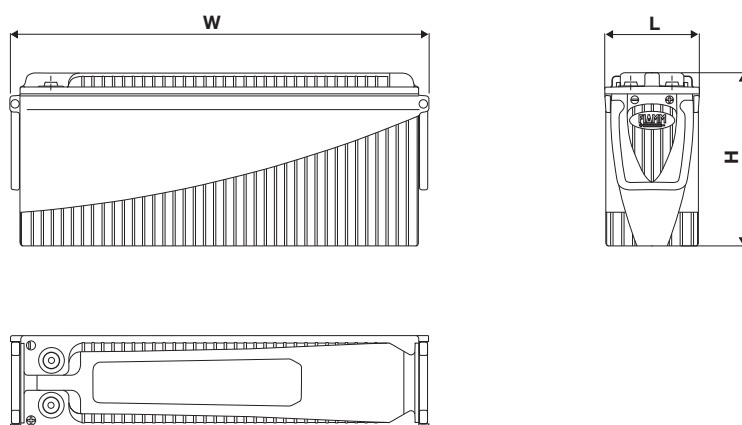
Discharge data at 20°C

Model	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	100	111	61.4	65.7	35.7	47.2	25.3	31.2	16.5	19.1	10.0
12SMG130	130	149	78.6	88	48.5	63.8	33.5	44.3	21.3	25.7	13.0

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 x C₁₀ (A)
- ✦ FLOAT VOLTAGE TEMPERATURE COMPENSATION: -2.5 mV/°C/cell

Dimensions



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