



Applications and Key Benefits

- + AGM 2V cells 160Ah to 2000Ah, designed for highest integrity, security and reliability
Ideal for:
 - High rate discharge UPS application
 - Telecom wireless and wireline
 - Industry and process controls
 - Emergency power supply systems
 - IT network operations and data centers
 - Electric utility
 - Switchgear
- + Excellent for high rate discharge (1 to 60 min) and medium to very long discharge (2 to 20 hours)
- + Design life up to >15 years in float operation and temperature controlled environment, depending on the model
- + Very high energy density allows more compact battery layout and footprint
- + Flame retardant plastics and flashback protection
- + Full compliance with international product and safety specifications
- + VRLA AGM and gas recombination technology with 99% internal recombination
- + No separate battery room required
- + Maintenance free without topping-up
- + Non-hazardous for sea/rail/ road transportation
- + 100% Recyclable



Applicable Standards

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- Eurobat "Long Life" - 12 years and longer
- BS 6290 Part 4 - specifications for VRLA classification
- BS 6334 / UL 94 V0 / IEC 707 FV0 - determination of materials flammability
- Bellcore TR-NWT-000766 - VRLA battery generic requirements
- Telcordia GR-4228 - VRLA battery string certification
- UL Recognized
- UL 1778 - UPS equipment

FIAMM Manufacturing

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

Technical Features

- Extra-thick plates with grids cast from high purity lead-calcium-tin alloy to minimize grid growth and corrosion, for prolonged service life
- Electrolyte absorbed in glass mat "AGM" separators with extremely high micro porosity
- Threaded post terminals with brass inserts guarantee highest conductivity, maximum torque retention and easy installation
- Heavy-duty internal straps and through-the-partition cell connections minimize internal resistance
- State of the art post seals prevent acid seepage over a wide temperature range
- Cells equipped with one-way safety valves to allow excess gas to escape when overcharging
- Flame arrestors prevent sparks or flames from entering the battery
- ABS IEC 707 FV0 and UL 94 V0 (LOI greater than 28%) flame retardant plastics
- Thick walled plastics designed for unsurpassed mechanical strength
- Most sizes have integrated handles
- < 2% self-discharge per month at 20°C allows 6 months shelf life

FIAMM SLA range

| BATTERY TYPE | NOMINAL VOLTAGE (V) | CAPACITY (Ah) at 20°C | SHORT CIRCUIT CURRENT (A) | INTERNAL RESISTANCE(m0hm) | DIMENSIONS (mm) | | | WEIGHT (kg) | TERMINAL TYPE |
|--------------|---------------------|-----------------------|---------------------------|---------------------------|-----------------|-------|---------|-------------|---------------|
| | | 10 hrs to 1.80 VPC | IEC 60896 21-22 | IEC 60896 21-22 | Length | Width | H/TH | | |
| 2SLA160 | 2 | 160 | 3540 | 0.58 | 171 | 107 | 334/362 | 12 | Female M8 |
| 2SLA200 | 2 | 200 | 5100 | 0.40 | 271 | 173 | 202/202 | 15 | Female M8 |
| 2SLA220 | 2 | 220 | 3950 | 0.52 | 171 | 107 | 334/362 | 15 | Female M8 |
| 2SLA250 | 2 | 250 | 5900 | 0.35 | 271 | 173 | 202/202 | 17 | Female M8 |
| 2SLA280 | 2 | 280 | 4290 | 0.48 | 171 | 151 | 334/362 | 19 | Female M8 |
| 2SLA300 | 2 | 300 | 6300 | 0.32 | 271 | 173 | 202/202 | 19 | Female M8 |
| 2SLA330 | 2 | 330 | 7500 | 0.27 | 208 | 195 | 230/230 | 22 | Female M8 |
| 2SLA340 | 2 | 340 | 4570 | 0.44 | 171 | 151 | 334/362 | 22 | Female M8 |
| 2SLA405 | 2 | 405 | 7600 | 0.26 | 250 | 202 | 226/226 | 27 | Female M8 |
| 2SLA450 | 2 | 450 | 8120 | 0.25 | 211 | 175 | 334/362 | 29 | Female M8 |
| 2SLA470 | 2 | 470 | 9300 | 0.22 | 388 | 173 | 232/236 | 32 | Female M8 |
| 2SLA500 | 2 | 500 | 9700 | 0.21 | 388 | 173 | 232/236 | 34 | Female M8 |
| 2SLA550 | 2 | 550 | 8640 | 0.24 | 240 | 174 | 334/362 | 35 | Female M8 |
| 2SLA580 | 2 | 580 | 10800 | 0.18 | 388 | 173 | 232/236 | 35 | Female M8 |
| 2SLA600 | 2 | 600 | 10800 | 0.19 | 388 | 173 | 232/236 | 37 | Female M8 |
| 2SLA650 | 2 | 650 | 10860 | 0.19 | 302 | 176 | 334/363 | 42 | Female M8 |
| 2SLA810 | 2 | 810 | 11500 | 0.18 | 411 | 175 | 334/362 | 55 | Female M8 |
| 2SLA850 | 2 | 850 | 14900 | 0.14 | 411 | 175 | 334/362 | 57 | Female M8 |
| 2SLA950 | 2 | 950 | 16200 | 0.13 | 411 | 175 | 334/362 | 60 | Female M8 |
| 2SLA1005 | 2 | 1000 | 17200 | 0.12 | 478 | 175 | 334/362 | 65 | Female M8 |
| 2SLA1105 | 2 | 1100 | 17900 | 0.12 | 478 | 175 | 334/362 | 70 | Female M8 |
| 2SLA1205 | 2 | 1200 | 18400 | 0.11 | 478 | 175 | 334/362 | 74 | Female M8 |
| 2SLA1355 | 2 | 1350 | 17100 | 0.12 | 478 | 210 | 336/364 | 82 | Female M8 |
| 2SLA1505 | 2 | 1500 | 20600 | 0.10 | 478 | 210 | 336/364 | 89 | Female M8 |
| 2SLA2005 | 2 | 2000 | 24400 | 0.09 | 472 | 335 | 331/340 | 124 | Female M10 |
| 2SLA800* | 2 | 800 | 9700 | 0.206 | 254 | 210 | 495 | 64 | Female M10 |
| 2SLA1000* | 2 | 1000 | 12000 | 0.165 | 254 | 210 | 495 | 74 | Female M10 |
| 2SLA1500* | 2 | 1500 | 16000 | 0.125 | 275 | 210 | 660 | 105 | Female M10 |
| 2SLA2000* | 2 | 2000 | 20000 | 0.102 | 368 | 218 | 660 | 137 | Female M10 |

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

* This cell must be installed horizontally.

Electrical Characteristics

- + FLOAT VOLTAGE CHARGE AT 20 - 25 °C: Standby use 2.25 ~ 2.27 V/cell
- + BOOST CHARGE : 2.35 V/cell
- + MAXIMUM CHARGE CURRENT : 0.25 C₁₀ A (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