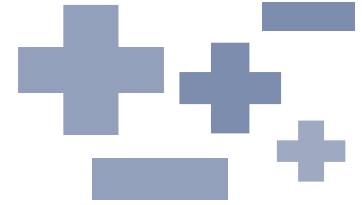


FIAMM

Industrial Batteries

MONOLITE SLA



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(mOhm)	DIMENSIONS (mm)			WEIGHT (kg)	TERMINAL TYPE
		10 hrs to 1.80 VPC	IEC 60896-21	IEC 60896-21	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	387	173	232/236	32	Female M8
2SLA500	2	500	9700	0.21	387	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	387	173	232/236	35	Female M8
2SLA600	2	600	10800	0.19	387	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 M10
2SLA950	2	950	16200	0.13	411	175	334/362	60	Female M10
2SLA1005	2	1000	17200	0.12	478	175	334/362	65	Female M10
2SLA1105	2	1100	17900	0.12	478	175	334/362	70	Female M10
2SLA1205	2	1200	18400	0.11	478	175	334/362	74	Female M10
2SLA1355	2	1350	17100	0.12	478	210	335.5/363.5	82	Female M8
2SLA1505	2	1500	20600	0.10	478	210	335.5/363.5	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	110	Female M10
2SLA2000*	2	2000	20000	0.102	368	218	660	143	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