FIAMM

Industrial Batteries

MONOLITE

SLA

Applications and Key Benefits

- AGM standby batteries 24Ah 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
- 2V cells and 4V, 6V and 12V blocs
- Excellent for high rate discharge (1 to 60 min) and medium to very long discharge (2 to 20 hours)
- >12 years design life in float operation in temperature controlled environments
- 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/air transportation
  (except for 2 SLA 800-2000Ah: non-hazardous for road and rail 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
- Bellcore TR-NWT-000909 - Fiber 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

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
- Remote venting system available for applications which require limited gassing to be vented externally

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FIAMM SLA 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		
12 SLA 26	12	24	884	14	166	175	125	9	Female M6
12 SLA 30	12	30	1300	9.0	201	138	190	14	Male M8
12 SLA 50	12	50	2030	6.0	288	173	202	21	Female M8
12 SLA 80	12	80	3000	4.0	360	164	228	29	Female M8
6 SLA 100	6	100	3800	1.70	271	173	202	20	Female M8
6 SLA 125	6	125	4300	1.40	268	172	230	24	Female M8
4 SLA 150	4	150	5000	0.70	271	173	202	19	Female M8
6 SLA 160	6	160	3050	1.96	298	202	226	32	Female M8
6 SLA 180*	6	180	3400	1.75	388	173	236	35	Female M8
6 SLA 200	6	200	3700	1.58	250	125	366	36	Female M8
4 SLA 200	4	200	3800	1.00	250	202	226	26	Female M8
2 SLA 250	2	250	5900	0.35	271	173	202	17	Female M8
2 SLA 300	2	300	6300	0.32	271	173	202	19	Female M8
2 SLA 330	2	330	7500	0.27	208	195	230	22	Female M8
2 SLA 405/4*	2	405	7600	0.26	250	202	226	27	Female M8
2 SLA 500*	2	500	9700	0.21	388	173	236	34	Female M8
2 SLA 580*	2	580	10800	0.19	388	173	236	37	Female M8
2 SLA 800**	2	820	9700	0.206	254	210	495	64	Female M10
2 SLA 1000**	2	1025	12000	0.165	254	210	495	74	Female M10
2 SLA 1500**	2	1500	16000	0.125	275	210	660	105	Female M10
2 SLA 2000**	2	2000	20000	0.102	368	218	660	137	Female M10

* The front view is the short side

** This cell must be installed horizontally

Torque Settings

- Male M8: 7÷8Nm
- Female M6: 7÷9Nm
- Female M8: 10÷12Nm
- Female M10: 20÷25Nm

Electrical Characteristics

- FLOAT VOLTAGE CHARGE AT 20°C: 2.27 V/cell.
- TEMPERATURE COMPENSATION: -2.5 mV/cell/°C
- SELF-DISCHARGE AT 20°C: < 2% / month

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