



### Applications and Key Benefits

- + 2V AGM - 800Ah to 2000Ah nominal capacity
  - Ideal for:
    - Telecom wireless and wireline applications
    - Industry and process controls
    - Emergency lighting systems
    - IT network operations and data centers
    - Electric utility / switchgear
- + Excellent for medium to long discharge applications (2 to 20 hours)
- + 20 year design life in float operation in temperature controlled environments
- + High energy density design allows for more efficient battery layout and footprint
- + AGM recombination technology minimizes gassing
- + No separate battery room required
- + No water additions required
- + Non-hazardous for rail and road transportation
- + 100% Recyclable

### Applicable Standards

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- 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
- 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

### FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

### Technical Features

- **Plates:** extra thick plates with grids cast from high quality lead-tin-calcium alloy to ensure long reliable life and low gas emission
- **Separators:** microporous absorbed glass mat (AGM) facilitates recombination and immobilizes the electrolyte
- **Container and Cover:** made from thick walled flame retardant ABS plastic and designed for unsurpassed mechanical strength.  
The case and cover has an LOI greater than 28% and meets the flame retardant standards of UL 94 V-O.  
Thermally welded case to cover sealing eliminates leaks.
- **Flame Arrestors / Safety Valves:** designed to open at 5 PSI and close at 3 PSI, the vent allows excess gas to escape when overcharging.  
The flame arrestor prevents any errant spark or flames from entering the battery.
- **Terminals:** threaded female (M10) terminal posts with brass inserts provide high conductivity, retain required torque values and allow for easy installation
- **Post Seals:** the high integrity post seal design prevents electrolyte leakage over a wide temperature range
- **Internal Connections:** heavy duty internal straps and through-the-partition cell connections minimize internal resistance and increase energy density
- **Shelf life:** < 2% self-discharge per month at 77°F allows 6 months shelf life before boosting is required
- **Installation:** can be operated in the vertical or inclined horizontal orientation



**MONOLITE**

**2 SLA 800      2 SLA 1500**  
**2 SLA 1000    2 SLA 2000**



## FIAMM SLA range

Model	Nominal Voltage (V)	Capacity (Ah) at 77°F	Short Circuit Current (A)	Internal Resistance (mOhm)	Dimensions (in)			Weight (lbs)
		8 hrs to 1.75 Vpc	IEC 60896 21-22	IEC 60896 21-22	Length	Width	Height	
2 SLA 800	2	800	9700	0.206	10.00	19.49	8.26	140.8
2 SLA 1000	2	1048	12000	0.165	10.00	19.49	8.26	162.8
2 SLA 1500	2	1500	16000	0.125	10.82	25.98	8.26	242.0
2 SLA 2000	2	2000	20000	0.102	14.48	25.98	8.58	314.6

### Torque Setting

- + Female M10: 175-220 inlbs (20-25 Nm)

### Electrical Characteristics

- + FLOAT VOLTAGE CHARGE AT 77°F: 2.26 Vpc
- + TEMPERATURE COMPENSATION: -1.38 mV/°F
- + SELF-DISCHARGE AT 77°F: < 2% / month

FIAMM Energy LLC  
 1 FIAMM Way  
 Waynesboro, GA 30830  
[www.fiamm.com](http://www.fiamm.com)  
 email: info.standby.america@fiamm.com



Industrial Batteries



Model	Constant Current Discharge Rates Amperes to 1.67 Vpc at 77°F (25°C)														
	Minutes								Hours						
	1	5	10	15	20	30	45	60	2	3	4	5	8	10	20
2 SLA 800	1429	1369	1293	1199	1049	855	658	536	324	238	191	159	106	86.6	46.1
2 SLA 1000	1786	1712	1616	1498	1311	1069	822	670	405	297	239	199	132	108	57.6
2 SLA 1500	2035	1885	1711	1553	1408	1202	975	824	530	400	321	271	189	156	85.9
2 SLA 2000	2713	2513	2281	2070	1877	1602	1300	1099	706	533	428	362	252	207	115

Model	Constant Current Discharge Rates Amperes to 1.75 Vpc at 77°F (25°C)														
	Minutes								Hours						
	1	5	10	15	20	30	45	60	2	3	4	5	8	10	20
2 SLA 800	1141	1122	1090	1037	937	793	622	514	316	234	187	157	105	85.6	45.5
2 SLA 1000	1427	1403	1362	1296	1171	992	777	642	395	292	234	196	131	107	56.9
2 SLA 1500	1637	1565	1473	1374	1274	1112	929	791	514	389	315	267	187	154	84.8
2 SLA 2000	2182	2086	1964	1831	1698	1483	1238	1054	686	519	420	357	249	205	113

Model	Constant Current Discharge Rates Amperes to 1.81 Vpc at 77°F (25°C)														
	Minutes								Hours						
	1	5	10	15	20	30	45	60	2	3	4	5	8	10	20
2 SLA 800	980	970	942	902	831	709	568	473	300	225	181	152	101	82.6	43.9
2 SLA 1000	1225	1213	1177	1127	1039	887	710	592	375	281	227	190	127	103	54.9
2 SLA 1500	1379	1319	1245	1171	1097	986	841	730	492	375	306	259	182	151	81.8
2 SLA 2000	1839	1758	1660	1562	1462	1314	1121	974	656	499	408	345	243	201	109

Model	Constant Power Discharge Rates Watt per cell to 1.67 Vpc at 77°F (25°C)														
	Minutes								Hours						
	1	5	10	15	20	30	45	60	2	3	4	5	8	10	20
2 SLA 800	2430	2340	2224	2077	1838	1521	1187	975	599	443	357	299	200	164	87.5
2 SLA 1000	3038	2926	2779	2596	2297	1901	1484	1219	749	553	446	374	250	205	109
2 SLA 1500	3554	3313	3028	2766	2522	2171	1777	1511	983	745	601	510	358	296	163
2 SLA 2000	4739	4418	4038	3688	3363	2894	2369	2015	1310	993	802	681	477	395	217

Model	Constant Power Discharge Rates Watt per cell to 1.75 Vpc at 77°F (25°C)														
	Minutes								Hours						
	1	5	10	15	20	30	45	60	2	3	4	5	8	10	20
2 SLA 800	2028	1997	1945	1857	1691	1446	1147	955	596	443	357	299	200	164	87.5
2 SLA 1000	2536	2496	2431	2321	2113	1808	1434	1194	744	554	446	374	250	205	109
2 SLA 1500	2966	2844	2687	2515	2341	2057	1729	1480	973	740	601	510	358	296	163
2 SLA 2000	3955	3792	3583	3353	3121	2743	2306	1973	1297	986	801	681	477	395	217

Model	Constant Power Discharge Rates Watt per cell to 1.81 Vpc at 77°F (25°C)														
	Minutes								Hours						
	1	5	10	15	20	30	45	60	2	3	4	5	8	10	20
2 SLA 800	1791	1774	1725	1657	1534	1321	1069	897	575	434	351	294	197	161	85.7
2 SLA 1000	2239	2218	2157	2071	1918	1652	1337	1121	719	542	438	368	246	201	107
2 SLA 1500	2564	2457	2326	2195	2061	1860	1596	1392	945	723	593	501	354	294	160
2 SLA 2000	3419	3276	3102	2927	2748	2481	2128	1856	1260	964	790	668	472	392	213

# FIAMM

Industrial Batteries

## FIAMM HEADQUARTERS

FIAMM S.p.A.  
Viale Europa, 75  
Montecchio Maggiore 36075 (VI)  
ITALY  
Tel +39 0444 709311  
Fax +39 0444 694178  
info.standby@fiamm.com

## SALES OFFICES

### EUROPE

FIAMM S.p.A.  
Viale Europa, 75  
Montecchio Maggiore 36075 (VI)  
ITALY  
Tel +39 0444 709311  
Fax +39 0444 694178  
info.standby@fiamm.com

### MIDDLE EAST & AFRICA

FIAMM S.p.A.  
Viale Europa, 75  
Montecchio Maggiore 36075 (VI)  
ITALY  
Tel +971 56 1016056  
Fax +39 0444 694178  
info.standby@fiamm.com

### JAPAN

FIAMM ASIA PACIFIC PTE LTD (Japan office)  
TS Hodogaya Building 7C, 15-3 Iwai-cho,  
Hodogaya-ku, Yokohama city,  
Kanagawa, JAPAN.  
240-0003  
Tel +81 45-336-3810  
Fax +81 45-336-3813  
info.standby.asia@fiamm.com

### NORTH AMERICA

FIAMM Energy, LLC  
Battery Division  
1 Fiamm Way  
Waynesboro, GA 30830 - USA  
Tel +1 (706) 437-3220  
Fax +1 (706) 437-3300  
info.standby.america@fiamm.com

### LATIN AMERICA

FIAMM Latin America Ltda.  
Av. Piraporinha, 121  
CEP 09891-0000  
São Bernardo do Campo - SP - Brasil  
Tel +55 11 3737 6137  
Fax +55 11 3737 6116  
baterias.industriais@fiamm.com

### GERMANY

FIAMM GmbH  
Hansestrasse 101  
51149 Köln  
GERMANY  
Tel + 49 02203 92578-0  
Fax +49 02203 92578-49  
info.standby@fiamm.com

### ASIA PACIFIC

FIAMM ASIA PACIFIC Pte Ltd  
24 Jurong Port Road, #02-04  
CWT Distripark, SINGAPORE 619097  
Tel +65 6867 6152  
Fax +65 68626550  
info.standby.asia@fiamm.com

### CHINA

FIAMM ENERTECH CO., LTD  
Hannan Road 458, Shamao Town  
Hannan District  
Wuhan City, Hubei Province, P.R. CHINA  
P.C.430090  
Tel +86 27 84782000  
Fax +86 27 84782888  
info.standby.asia@fiamm.com

### FRANCE

FIAMM FRANCE  
12 Rue Augustin Fresnel  
78410 Aubergenville  
FRANCE  
Tel +33 1 39297701  
Fax +33 1 30903369  
info.standby@fiamm.com