



Applications and Key Benefits

- + Designed to achieve optimal performance and to protect from power disturbances
ideal for:
 - UPS application
 - Emergency lighting
 - Signaling
 - Security & alarm systems
 - Light traction applications
 - Camping & yachting
- + 6 volt and 12 volt monoblocs
- + Optimized for discharge from 15min up to 20hours
- + Easy installation in cabinets or racks
- + Non-spillable
- + Flame retardant plastics FV0
- + VRLA AGM and gas recombination technology with 99% internal recombination
- + Maintenance free without topping-up
- + Non-hazardous for air/sea/rail/ road transportation
- + 100% Recyclable

Applicable Standards

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- BS 6290 Part 4 - specifications for VRLA classification
- Eurobat "High Performance" - 10 -12 years

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- OHSAS18001 - Workplace Safety & Health

Technical Features

- Gravity casted grids with high purity lead calcium tin alloy
- Minimal grid growth and corrosion resistant for prolonged service life
- Electrolyte fully absorbed in glass mat "AGM" separators with extremely high micro porosity
- Threaded female M6/M8 terminal posts guarantee highest conductivity, maximum torque retention and easy installation
- Leak-resistant 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 flame retardant plastics
- Container and lid designed for unsurpassed mechanical strength made of thick walled plastics
- < 2% self-discharge per month at 20°C allows 6 months shelf life



FIAMM SP range

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY(AH) Ah at 20°C	SHORT CIRCUIT CURRENT(A)	INTERNAL RESISTANCE(mohm)	DIMENSIONS(mm)			WEIGHT (kg)	TERMINAL TYPE
		20 hrs to 1.75 VPC	IEC 60896-21	IEC 60896-21	Length	Width	H/TH		
12 SP 26	12	26	630	19.5	166	175	125/125	9.0	Female M6
12 SP 33	12	33	925	13.5	196	130	159/164	12.0	Female M6
12 SP 42	12	42	910	13.9	197	165	170/170	13.8	Female M6
12 SP 55	12	55	1400	8.9	229	138	207/212	18.2	Female M6
12 SP 70	12	70	2020	6.2	272	166	191/195	23.2	Female M8
12 SP 72	12	70	1530	8.5	350	166	175/175	22.0	Female M8
12 SP 80	12	80	2150	5.8	259	168	209/213	27.0	Female M8
12 SP 90	12	90	2300	5.6	305	168	207/212	31.4	Female M8
12 SP 100	12	100	2390	5.4	329	172	214/221	32.5	Female M8
12 SP 120	12	120	2510	5.0	407	173	220/225	38.0	Female M8
12 SP 135	12	135	2920	4.3	345	172	276/281	46.3	Female M8
12 SP 150	12	150	3230	3.8	483	170	220/220	46.2	Female M8
12 SP 205	12	205	3940	3.2	500	226	235/235	66.0	Female M8
12 SP 235	12	235	4480	2.8	500	260	235/235	75.0	Female M8
6 SP 200	6	200	3940	1.6	321	177	224/227	32.0	Female M8
6 SP 300	6	300	6970	0.9	500	192	235/237	50.0	Female M8
6 SP 350	6	350	7750	0.8	500	192	235/237	57.0	Female M8

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

Electrical Characteristics

- ✦ FLOAT VOLTAGE CHARGE AT 20-25°C: Standby use 2.27~2.28 V/cell
- ✦ BOOST CHARGE: 2.35 V/cell
- ✦ MAXIMUM CHARGE CURRENT: 0.25 C₂₀ A (i.e.: for a 100Ah bloc maximum charge current is 25 Amps)
- ✦ FLOAT VOLTAGE TEMPERATURE COMPENSATION: -2.5 mV/°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