

### 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 and UL 94 V0 flame retardant plastics (LOI greater than 28%)
- 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) IEC 60896 21-22	INTERNAL RESISTANCE(mohm) IEC 60896 21-22	DIMENSIONS(mm)			WEIGHT (kg)	TERMINAL TYPE
		20 hrs to 1.75 VPC	10 hrs to 1.80 VPC			Length	Width	H/TH		
12 SP 26	12	26	24	630	19.5	166	175	125/125	9.0	Female M6
12 SP 33	12	33	30	925	13.5	196	130	159/164	11.5	Female M6
12 SP 42	12	42	38	1332	9.4	197	165	170/170	13.6	Female M6
12 SP 55	12	55	50	1400	8.9	229	138	207/212	18.2	Female M6
12 SP 70	12	70	64	2688	4.6	272	166	191/195	22.4	Female M8
12 SP 72	12	70	64	1530	8.5	350	166	175/175	22.6	Female M8
12 SP 80	12	80	73	2333	5.3	259	168	209/213	25.3	Female M8
12 SP 100	12	100	91	2479	5.1	329	172	214/221	32.0	Female M8
12 SP 120	12	120	106	2858	4.5	407	173	220/225	37.7	Female M8
12 SP 135	12	135	123	2920	4.3	345	172	276/281	46.3	Female M8
12 SP 150	12	150	137	3002	4.2	483	170	220/220	44.6	Female M8
12 SP 205	12	205	187	4699	2.7	500	226	235/235	62.9	Female M8
12 SP 235	12	235	215	4208	3.0	500	260	235/235	73.5	Female M8
6 SP 200	6	200	187	3782	1.7	321	177	224/227	30.8	Female M8

Note: dimensions may have a natural tolerance of  $\pm 2$  mm.

## Electrical Characteristics

- ✚ FLOAT VOLTAGE CHARGE AT 25 °C: Standby use 13.56 V/bloc (2.26 V/cell)
- ✚ BOOST CHARGE: 14.1 V/bloc (2.35 V/cell)
- ✚ MAXIMUM CHARGE CURRENT: 0.25 C<sub>20</sub>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