

# SPH

# **Application and Key Benefits**

- 12V AGM blocs with gel ideal for:
  - UPS application
  - Emergency lighting
  - Signaling
  - Security & alarm systems
  - Light traction applications
  - Camping & yachting
- Optimized for discharge from 15min up to 20hours
- With gel, for extended life and resistance with use at elevated temperature
- Better cycling performance
- Easy installation in cabinets or racks
- 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

### **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 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 SPX range**

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY (AH) Ah at 20°C	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mohm)	DIMENSIONS (mm)			WEIGHT	TERMINAL
		20 hrs to 1.75 VPC	IEC 60896 21-22	IEC 60896 21-22	Length	Width	H/TH	(kg)	TYPE
12 SPX 26	12	26	630	19.5	166	175	125/125	9.0	Female M6
12 SPX 33	12	33	925	13.5	196	130	159/164	12.0	Female M6
12 SPX 42	12	42	910	13.9	197	165	170/170	13.8	Female M6
12 SPX 55	12	55	1400	8.9	229	138	207/212	18.2	Female M6
12 SPX 72	12	70	1530	8.5	350	166	175/175	22.0	Female M8
12 SPX 80	12	80	2150	5.8	259	168	209/213	27.0	Female M8
12 SPX 100	12	100	2390	5.4	329	172	214/221	33.0	Female M8
12 SPX 120	12	120	2510	5.0	407	173	220/225	38.0	Female M8
12 SPX 150	12	150	3230	3.8	483	170	220/220	46.2	Female M8
12 SPX 205	12	205	3940	3.2	500	226	235/235	66.0	Female M8
12 SPX 235	12	235	4480	2.8	500	260	235/235	75.0	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 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</p>
- 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



FIAMM Energy Technology (Wuhan) Co. Ltd. Reserve Power Solutions



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