

SP



SP Battery Range

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THE SP RANGE IS DESIGNED TO SATISFY A WIDE RANGE OF APPLICATIONS REQUIRING HIGH LEVEL OF SECURITY AND RELIABILITY.

SP BATTERIES OFFER GOOD PERFORMANCE WITH ANY DISCHARGE PROFILE. SP BLOCS CAN BE INSTALLED IN CABINETS OR RACKS. SP USES PROVEN VRLA TECHNOLOGY WITH 99% INTERNAL RECOMBINATION EFFICIENCY, IS NON-SPILLABLE AND MAINTENANCE FREE THEREFORE REQUIRES NO TOPPING UP OF ELECTROLYTE DURING ITS FLOAT-LIFE. SP RANGE IS NON-HAZARDOUS FOR AIR/SEA/RAIL/ROAD TRANSPORTATION AND IS 100% RECYCLABLE. SP HAS A SELF-DISCHARGE RATE LESS THAN 2% PER MONTH, GUARANTEEING LONG SHELF-LIFE.



MAIN APPLICATIONS:



SPECIFICATIONS

Special lead calcium tin alloy grid, designed to resist corrosion and provide short recharge time

VRLA AGM technology using low resistance high microporous fiberglass separators

Leak resistant post seal, threaded female M5/M6/M8 terminals with high conductivity and maximum torque resistance

One-way safety relief valves allow gas to escape and prevent the ingress of oxygen.

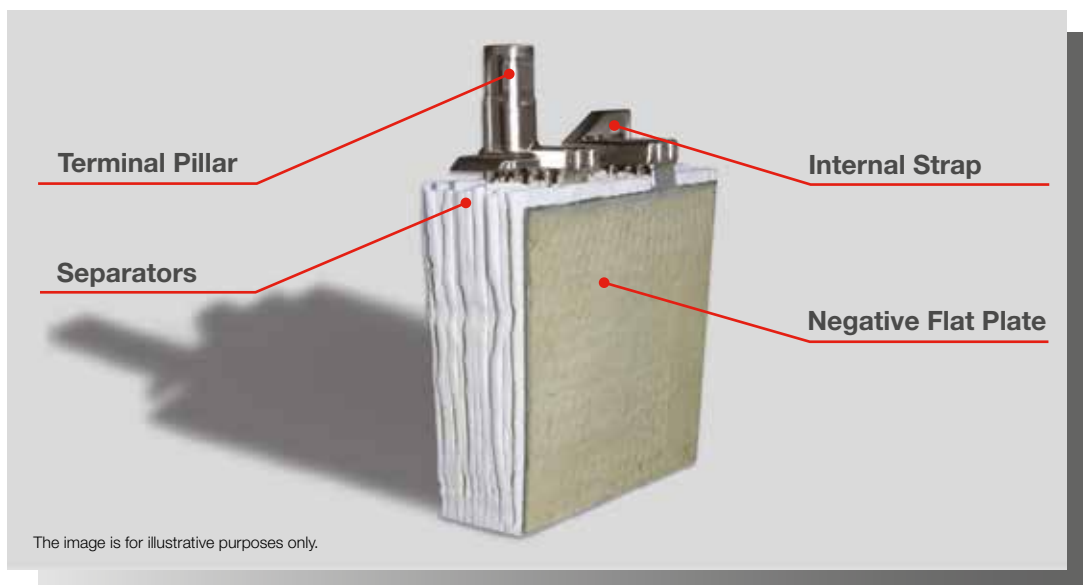
Flame arrestors prevent sparks or flames entering the battery

ABS flame retardant (V0 grade) designed for superior mechanical strength

Heat sealed box to lid weld for superior integrity

Installation in any orientation (excluding permanently inverted)

TECHNOLOGY



FIAMM SP RANGE USE AGM (ABSORBED GLASS MAT) TECHNOLOGY. THE ELECTROLYTE IS ABSORBED IN FIBERGLASS SEPARATORS WITH 99% INTERNAL GAS RECOMBINATION EFFICIENCY. BLOCS ARE GRANTS NON-SPILLABLE AND MAINTENANCE FREE THEREFORE REQUIRES NO TOPPING UP OF ELECTROLYTE DURING ITS WHOLE LIFE. LOW SELF-DISCHARGE ALLOWS 6 MONTHS SHELF LIFE.

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY (Ah) 20 hrs to 1.75 VPC at 20°C	SHORT CIRCUIT CURRENT IEC 60896-21-22	INTERNAL RESISTANCE IEC 60896 21-22	NOMINAL DIMENSIONS (mm)				TYPICAL WEIGHT (kg)	TERMINAL TYPE
					Length	Width	Height	Tot. Height		
12SP26	12	26	630	19.5	166	175	125	125	9.0	Female M6
12SP33	12	33	925	13.5	196	130	159	164	11.5	Female M6
12SP42	12	42	1332	9.4	197	165	170	170	13.5	Female M6
12SP55	12	55	1400	8.9	229	138	207	212	18.2	Female M6
12SP70	12	70	2688	4.6	272	166	191	195	22.4	Female M8
12SP72	12	70	1530	8.5	350	166	175	175	22.6	Female M8
12SP80	12	80	2333	5.3	259	168	209	213	25.3	Female M8
12SP100	12	100	2479	5.1	329	172	214	221	32.0	Female M8
12SP120	12	120	2858	4.5	407	173	220	225	37.7	Female M8
12SP135	12	135	2920	4.3	345	172	276	281	46.3	Female M8
12SP150	12	150	3002	4.2	483	170	220	220	44.6	Female M8
12SP210	12	205	4100	3.0	522	238	219	224	61.5	Female M8
12SP240	12	240	4300	2.8	520	269	203	208	71.0	Female M8

ELECTRICAL CHARACTERISTICS

Float Voltage: 2.26 V/cell at 25°C

Boost Voltage: 2.40 V/cell

Float Voltage Compensation with Temperature: -2.5 mV/cell/°C

Self-Discharge at 25°C: <2%/month

STANDARDS

IEC 60896 Part 21 - VRLA methods of testing

IEC 60896 Part 22 - VRLA requirements

Eurobat "10-12 years LONG LIFE"

UL Recognized

CERTIFICATIONS

ISO 9001

Quality Management System

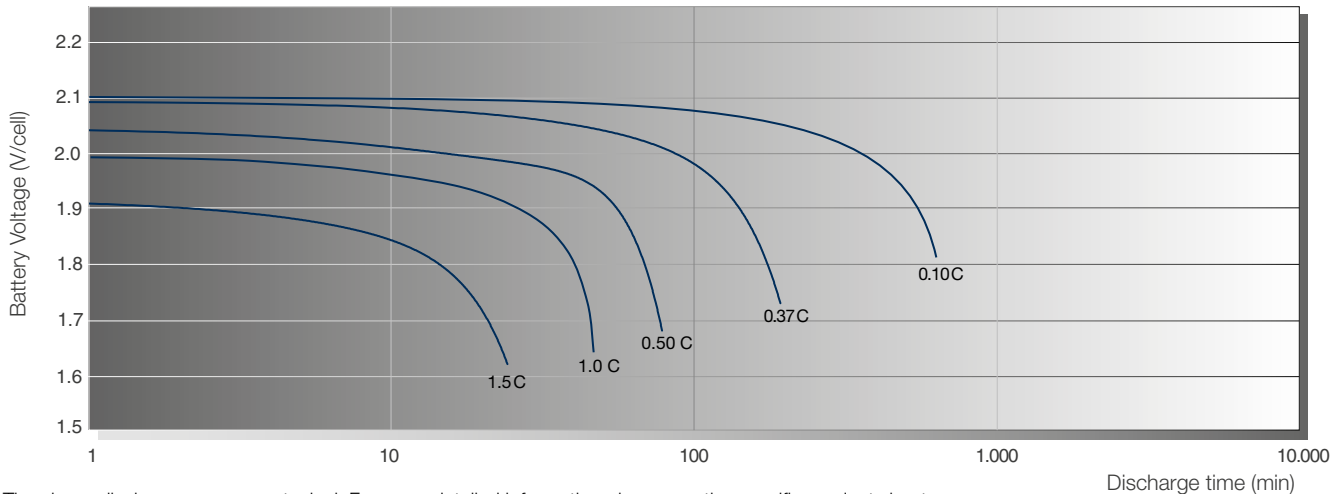
ISO 14001

Environmental Management System

OHSAS 18001

Workplace Safety & Health

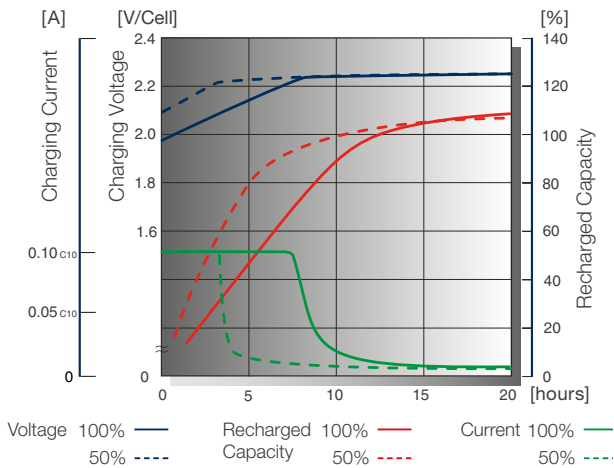
DISCHARGE CURVES at different current / final voltage (at 25°C)



The above discharge curves are typical. For more detailed information please see the specific product sheets.

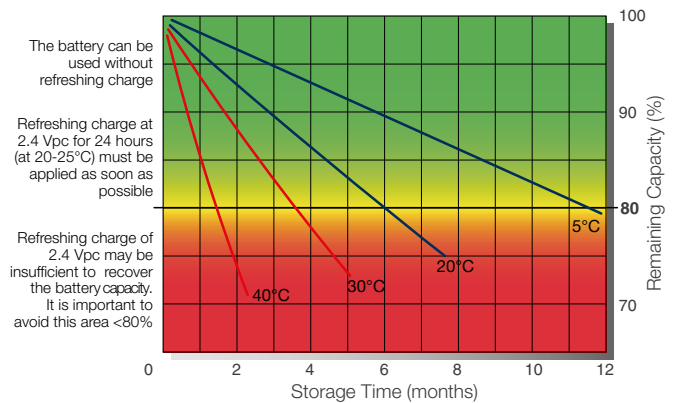
TYPICAL CHARGE CURVES

Battery Voltage and Charge Time for Standby Use (at 25°C)



STORAGE

Capacity loss during storage at various temperatures



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