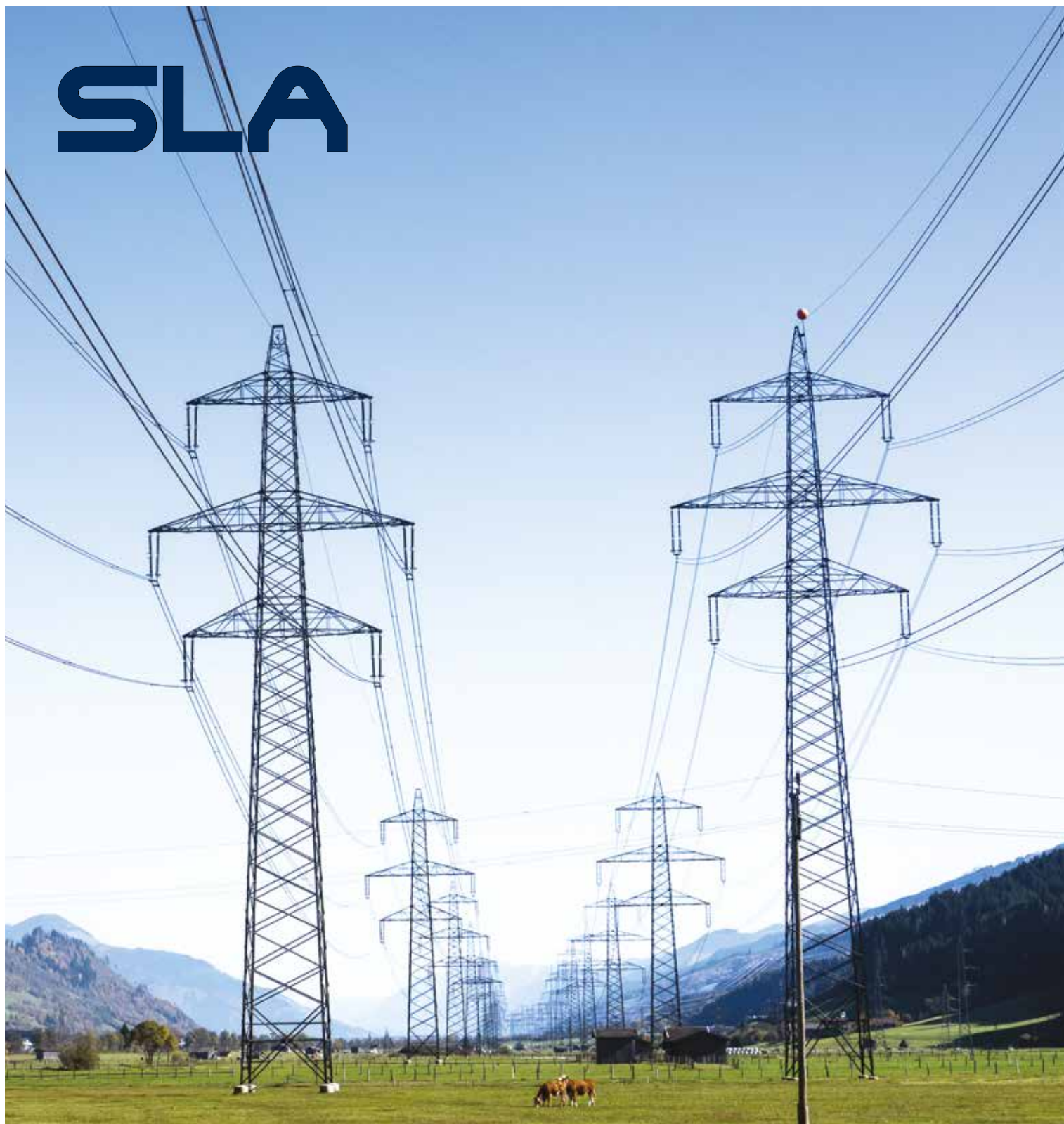


SLA



SLA Battery Range

FIAMM
+ — -

+
FIAMM.COM

FIAMM SLA RANGE OF VALVE REGULATED BATTERIES HAS BEEN DESIGNED FOR APPLICATIONS DEMANDING THE HIGHEST LEVEL OF RELIABILITY AND SECURITY.

FIAMM HIGH INTEGRITY SLA RANGE HAS BEEN DESIGNED FOR THE MOST CRITICAL APPLICATIONS, OFFERING UNSURPASSED PROVEN RELIABILITY, COMPLIANT WITH THE HIGHEST RECOGNISED INTERNATIONAL STANDARDS. SLA USES VRLA TECHNOLOGY WITH 99% INTERNAL RECOMBINATION EFFICIENCY, IS NON-SPILLABLE AND MAINTENANCE FREE THEREFORE REQUIRES NO TOPPING UP OF ELECTROLYTE DURING ITS FLOAT-LIFE. SLA RANGE IS NON-HAZARDOUS FOR AIR/SEA/RAIL/ROAD TRANSPORTATION AND IS 100% RECYCLABLE. SLA HAS A SELF-DISCHARGE RATE LESS THAN 2% PER MONTH, GUARANTEEING LONG SHELF-LIFE.



MAIN APPLICATIONS:



TELECOMMUNICATION



UPS & DATA CENTER



UTILITIES & INDUSTRY



RAILWAYS



OIL & GAS

SPECIFICATIONS

Special lead calcium tin alloy grid is designed to meet the demanding requirements of telecom and power generation markets

VRLA AGM technology using low resistance high microporous fiberglass separators

Leak resistant post seal, threaded female M6/M8/M10 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

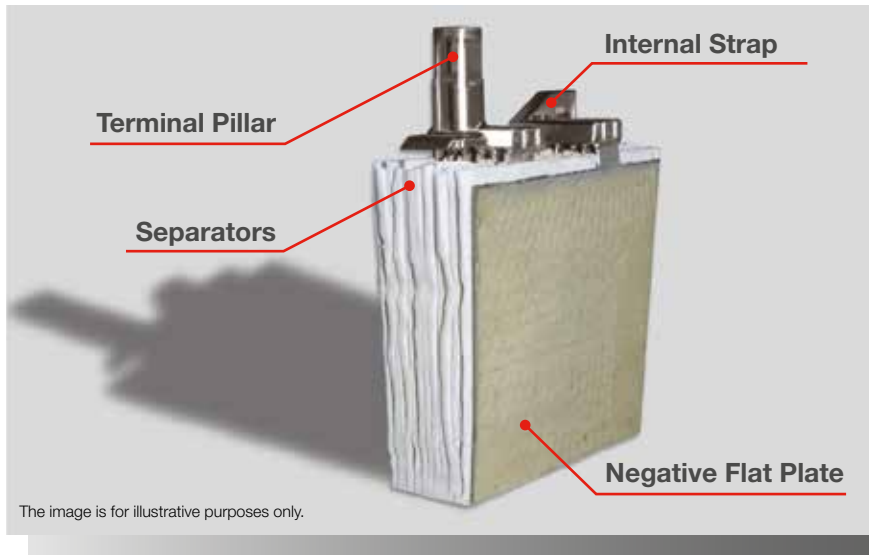
Flame retardant ABS plastic to IEC 707 FV0 and UL94 FV0 (LOI greater than 28%)

Thick walled plastics designed for superior mechanical strength

Heat sealed box to lid weld for superior integrity

Installation in any orientation (excluding permanently inverted)

TECHNOLOGY



FIAMM SLA 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 AT 68°F (Ah) 10 HRS TO 1.8 VPC | SHORT CIRCUIT CURRENT (A) IEC 60896 21-22 | INTERNAL RESISTANCE (mOhm) IEC 60896 21-22 | DIMENSIONS (in.) | | | WEIGHT (lbs) |
|--------------|---------------------|--|--|---|------------------|-------|--------|--------------|
| | | | | | Length | Width | Height | |
| 12 SLA 26 | 12 | 24 | 884 | 14 | 6.54 | 6.89 | 4.92 | 21 |
| 12 SLA 50 L | 12 | 50 | 1550 | 8.3 | 10.28 | 6.85 | 8.62 | 46 |
| 12 SLA 80 L | 12 | 80 | 2144 | 6.0 | 11.89 | 6.85 | 8.62 | 64 |
| 12 SLA 110 L | 12 | 110 | 3000 | 4.2 | 14.92 | 6.85 | 8.62 | 82 |
| 6 SLA 125 | 6 | 125 | 4300 | 1.40 | 10.55 | 6.77 | 9.06 | 53 |
| 4 SLA 150 | 4 | 150 | 5000 | 0.70 | 10.67 | 6.81 | 7.95 | 42 |
| 6 SLA 160 | 6 | 160 | 3050 | 1.96 | 11.73 | 7.95 | 8.90 | 71 |
| 6 SLA 180* | 6 | 180 | 3400 | 1.75 | 15.28 | 6.81 | 9.29 | 77 |
| 4 SLA 200 | 4 | 200 | 3800 | 1.00 | 9.84 | 7.95 | 8.90 | 57 |
| 2 SLA 250 | 2 | 250 | 5900 | 0.35 | 10.67 | 6.81 | 7.95 | 37 |
| 2 SLA 300 | 2 | 300 | 6300 | 0.32 | 10.67 | 6.81 | 7.95 | 42 |
| 2 SLA 330 | 2 | 330 | 7500 | 0.27 | 8.19 | 7.68 | 9.06 | 49 |
| 2 SLA 405/4* | 2 | 405 | 7600 | 0.26 | 9.84 | 7.95 | 8.90 | 60 |
| 2 SLA 500* | 2 | 500 | 9700 | 0.21 | 15.28 | 6.81 | 9.29 | 75 |
| 2 SLA 580* | 2 | 580 | 10800 | 0.19 | 15.28 | 6.81 | 9.29 | 82 |
| 2 SLA 800** | 2 | 820 | 9700 | 0.206 | 10.00 | 8.27 | 19.49 | 141 |
| 2 SLA 1000** | 2 | 1025 | 12000 | 0.165 | 10.00 | 8.27 | 19.49 | 163 |
| 2 SLA 1500** | 2 | 1500 | 16000 | 0.125 | 10.83 | 8.27 | 25.98 | 231 |
| 2 SLA 2000** | 2 | 2000 | 20000 | 0.102 | 14.49 | 8.58 | 25.98 | 302 |

* The front view is the short side

** This cell must be installed horizontally

ELECTRICAL CHARACTERISTICS

Float Voltage: 2.27 V/cell at 68°F

Boost Voltage: 2.40 V/cell

Float Voltage Compensation with Temperature: -1.39 mV/cell/°F

Self-Discharge at 68°F: <2%/month

STANDARDS

IEC 60896 Part 21 - VRLA methods of testing

IEC 60896 Part 22 - VRLA requirements

Telcordia GR-4228 - VRLA battery string certification

BS 6334 / UL 94 V0 / IEC 707 FV0 determination of materials flammability

Bellcore TR-NWT-000766 - VRLA battery generic requirements

UL 1778 - UPS equipment

Eurobat ">12 years VERY LONG LIFE"

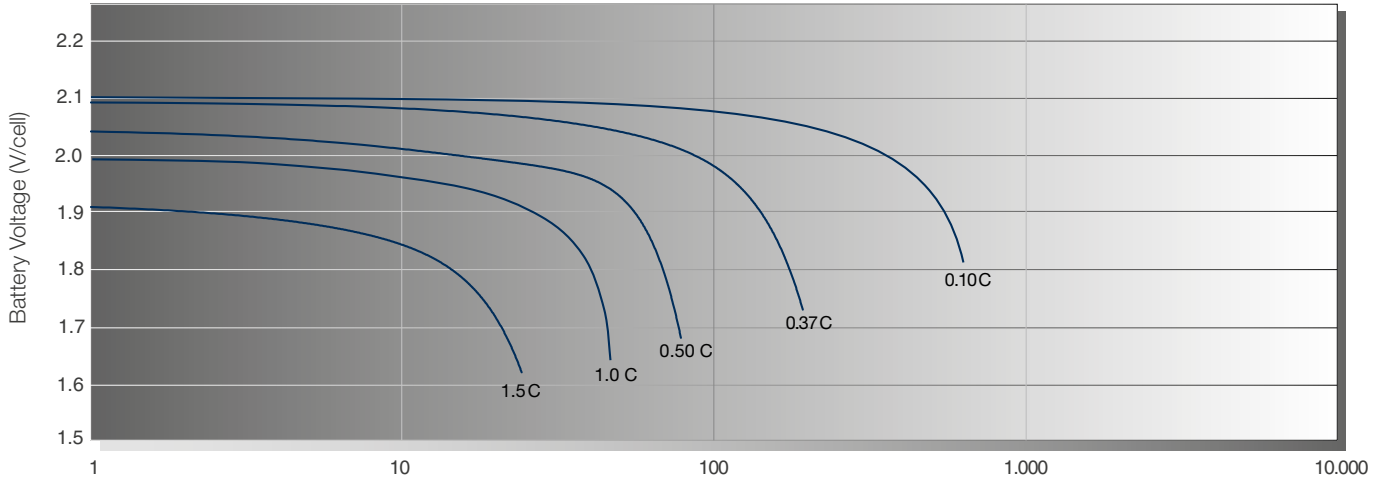
CERTIFICATIONS

ISO 9001
Quality Management System
ISO 14001
Environmental Management System
OHSAS 18001
Workplace Safety & Health

ACCESSORIES

RVS
(remote venting system) for IP rated applications which require remote gassing
Rack for battery installation
(standard and anti-seismic)
Cabinets for battery installation
(including electrical protections and disconnection)
Battery monitoring systems

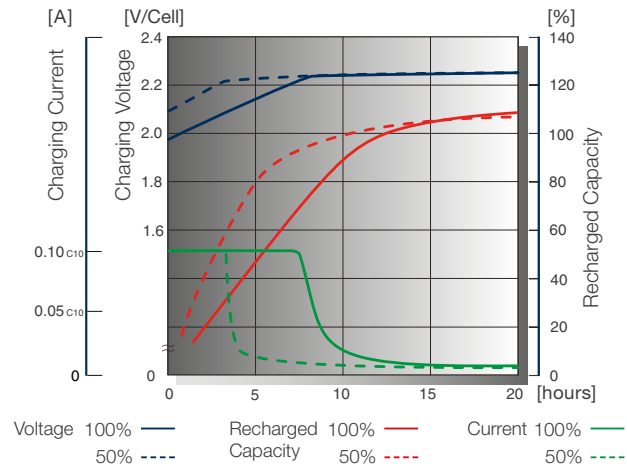
DISCHARGE CURVES at different current / final voltage (at 77°F)



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

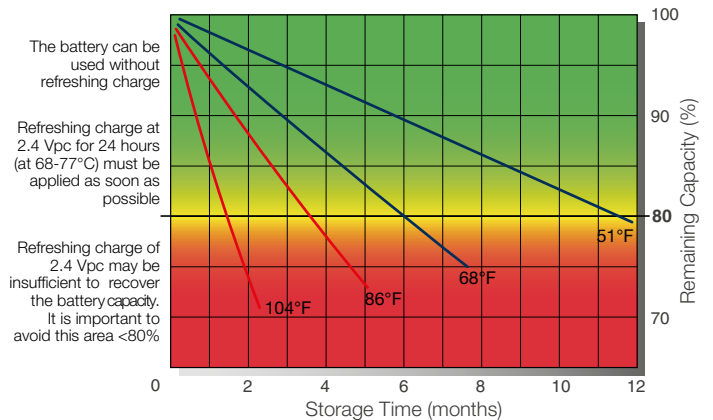
TYPICAL CHARGE CURVES

Battery Voltage and Charge Time for Standby Use (at 68°F)



STORAGE

Capacity loss during storage at various temperatures



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