



FIAMM's FLX batteries have been specifically designed to achieve optimal performance in:

- High-Rate UPS Systems
- Emergency Power Applications

A compact footprint provides easy installation in cabinets and racks with minimal space clearance.

Capable of protecting the critical load from power disturbances. Our FLX range offers an excellent solution for today's power requirements:

- Safe
- Versatile
- Reliable
- Long Life
- Superior Energy Density
- ◆ Easy Handling and Installation

# **Technical Features**

**Plates and Grids:** gravity casted grids from high purity lead calcium tin alloy to provide an optimal current conducting framework for high rate discharges.

**Separators:** microporous absorbent glass mat facilitates recombination and immobilizes the electrolyte.

**Terminals:** threaded female alloy terminal posts provide high conductivity, maximum torque retention and easy installation.

**Post Seals:** state of the art post seals prevent acid seepage over a wide temperature range .

**Safety Valve:** each cell has its own one way valve that opens at 5 psi and closes at 3 psi to allow excess gas to escape in case of overcharging.

**Container and Cover:** made from thick walled ABS plastic and designed for unsurpassed mechanical strength, the cases and covers have an LOI greater than 28% and meet the flame retardant standards of UL94 V-0.

**Flame Arrestor Device:** releases excess gas while preventing any errant spark or flame from entering the battery.

## **Applicable Standards**

Telcordia (Bellcore) SR-4228
Telcordia (Bellcore) TR-NWT-001200
Telcordia (Bellcore) TR-NWT-000909
UL Recognized
UL 94 Class V-0
UL 1778
IEC 60896 Part 21-22

### **Product Features**

- AGM Technology (high recombination efficiency, up to 99%)
- ◆ 10 year design life @ 25°C
- ♣ No Electrolyte Maintenance Required
- Operating in any orientation. We recommend upright, side or end mounting
- ♣ No restriction in air/surface/water transportation

# tandby Product





# **FIAMM FLX range**

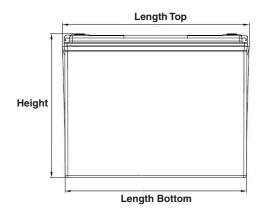
| BATTERY<br>TYPE | NOMINAL<br>Voltage<br>(V) | CAPACITY (WPC)<br>at 77°F | DIMENSIONS in.               |                            |                              | WEIGHT      |           |
|-----------------|---------------------------|---------------------------|------------------------------|----------------------------|------------------------------|-------------|-----------|
|                 |                           | 15 min to<br>1.67 VPC     | Top Length/<br>Bottom Length | Top Width/<br>Bottom Width | Top Height/<br>Bottom Height | lbs/(kg)    | TERMINALS |
| 12 FLX 200      | 12                        | 204                       | 9.01/8.90                    | 5.43/5.34                  | 8.35                         | 39.2/(17.8) | 1/4" - 20 |
| 12 FLX 250      | 12                        | 257                       | 10.69/10.61                  | 6.54/6.35                  | 7.68                         | 51.0/(23.2) | 1/4" - 20 |
| 12 FLX 300      | 12                        | 311                       | 10.27/10.16                  | 6.85/6.57                  | 8.58                         | 58.3/(26.5) | 1/4" - 20 |
| 12 FLX 350      | 12                        | 374                       | 11.87/11.76                  | 6.85/6.57                  | 8.58                         | 67.5/(30.7) | 1/4" - 20 |
| 12 FLX 400      | 12                        | 415                       | 13.31/12.74                  | 6.85/6.57                  | 8.46                         | 73.3/(33.3) | 1/4" - 20 |
| 12 FLX 500      | 12                        | 493                       | 13.31/12.74                  | 6.85/6.57                  | 10.87                        | 97.5/(44.3) | 1/4" - 20 |
| 12 FLX 540      | 12                        | 540                       | 13.31/12.74                  | 6.85/6.57                  | 10.87                        | 97.5/(44.3) | 1/4" - 20 |

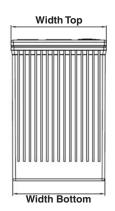
## DISCHARGE WATTS PER CELL TO 1.67 V/CELL AT 77°F

| BATTERY<br>TYPE | MINUTES |     |     |     |     |      |      |  |  |
|-----------------|---------|-----|-----|-----|-----|------|------|--|--|
|                 | 5       | 10  | 15  | 20  | 30  | 45   | 60   |  |  |
| 12 FLX 200      | 354     | 256 | 204 | 167 | 125 | 91.9 | 73.4 |  |  |
| 12 FLX 250      | 489     | 339 | 257 | 207 | 152 | 108  | 86.8 |  |  |
| 12 FLX 300      | 526     | 394 | 311 | 254 | 187 | 135  | 106  |  |  |
| 12 FLX 350      | 632     | 472 | 374 | 305 | 225 | 162  | 128  |  |  |
| 12 FLX 400      | 702     | 525 | 415 | 339 | 250 | 180  | 142  |  |  |
| 12 FLX 500      | 746     | 569 | 493 | 378 | 280 | 203  | 162  |  |  |
| 12 FLX 540      | 869     | 657 | 540 | 448 | 343 | 252  | 196  |  |  |

## **Electrical Characteristics**

- **♣** FLOAT VOLTAGE CHARGE AT 77°F: 13.62 V/bloc
- ♣ FLOAT VOLTAGE COMPENSATION WITH TEMPERATURE: -8.3 mV/°F per bloc
- ♣ SELF-DISCHARGE AT 77°F: < 2% / month





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FIAMM Technologies LLC reserves the right to change or revise without notice any information or detail given in this publication

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