



FIAMM's **Monolite 12SLA12** valve-regulated, lead-acid battery is specifically designed to meet and exceed the exacting specifications of the Telecommunications industry. This "purpose-built" design philosophy, coupled with industry-leading manufacturing technology, ensures product consistency and reliable performance in a battery ideally suited to Telecommunications applications:

- 12-year plus design life
- Has passed the stringent Telcordia (Bellcore) 10-year accelerated life tests
- Good Energy Density
- Good Low-Rate Performance
- Easy Handling and Installation
- Safe Operation and Ease of Testing
- No Water Addition Needed

The FIAMM **Monolite 12SLA12** battery has a proven track record of exceptional performance in many parts of the network. With its traditional top-terminal design, it is ideally suited for applications utilizing roll-out trays or drawers such as Remote Terminals cabinets, Huts and CEV's.

# Monolite

Model 12 SLA 12  
12-volt, 12 Ah

## DESIGN FEATURES

- ▶ **Plates and Grids:** extra-thick plates with grids cast from high purity lead-calcium-tin alloy ensure long and reliable life
- ▶ **Separator:** microporous glass mat facilitates recombination and immobilizes the electrolyte
- ▶ **Internal Connections:** heavy-duty internal straps and through-the-partition cell connections minimize internal resistance for increased energy density
- ▶ **Terminals:** threaded post terminals with brass inserts provide for high conductivity and maximum torque retention
- ▶ **Post Seals:** state-of-the-art post seals prevent 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 over-charging
- ▶ **Flame Arrestor:** lets excess gas out while preventing any errant spark or flame from entering the battery
- ▶ **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 retardancy standards of UL 94 V-0

## STANDARDS COMPLIANCE

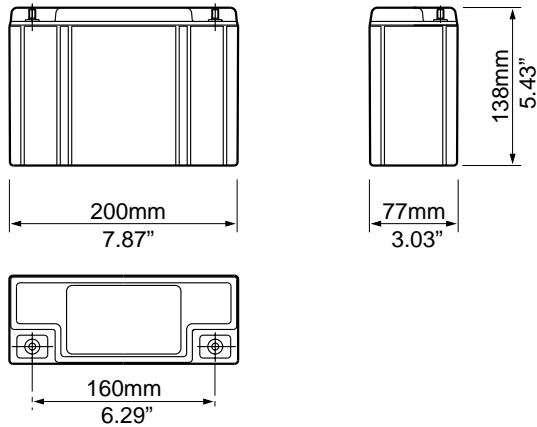
The 12SLA12 meets the requirements of the following industry standards:

- ▶ ANSI T1.330-1997
- ▶ British Standard BS 6290 Part 4
- ▶ British Standard 6334 method FV0
- ▶ Eurobat Guide - 12 years and longer "long life"
- ▶ IEC 707 FV0
- ▶ IEC 896 Part 2
- ▶ Telcordia (Bellcore) SR-4228
- ▶ Telcordia (Bellcore) TR-NWT-000766
- ▶ Telcordia (Bellcore) TR-NWT-000909
- ▶ Telcordia (Bellcore) TR-NWT-001200
- ▶ UL 1778
- ▶ UL 94 Class V-0
- ▶ UL Recognized

Telecommunications Standby Batteries

# Monolite Model 12 SLA 12

1394785  
07.02



### DISCHARGE AMPERES FOR 12 SLA 12 AT 77°F (25°C)

| V/cell | HOURS |      |      |      |      |      |      |      |      |      |      |
|--------|-------|------|------|------|------|------|------|------|------|------|------|
|        | 1     | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 10   | 12   | 20   |
| 1.65   | 8.22  | 4.72 | 3.40 | 2.69 | 2.24 | 1.94 | 1.70 | 1.52 | 1.26 | 1.05 | 0.66 |
| 1.70   | 8.13  | 4.68 | 3.37 | 2.66 | 2.22 | 1.92 | 1.68 | 1.50 | 1.24 | 1.05 | 0.65 |
| 1.75   | 8.01  | 4.63 | 3.33 | 2.64 | 2.20 | 1.90 | 1.67 | 1.49 | 1.23 | 1.04 | 0.65 |
| 1.80   | 7.86  | 4.56 | 3.29 | 2.60 | 2.17 | 1.87 | 1.64 | 1.47 | 1.22 | 1.03 | 0.64 |
| 1.85   | 7.56  | 4.42 | 3.20 | 2.54 | 2.12 | 1.83 | 1.61 | 1.44 | 1.19 | 0.99 | 0.61 |
| 1.88   | 7.23  | 4.25 | 3.08 | 2.45 | 2.05 | 1.77 | 1.56 | 1.40 | 1.16 | 0.97 | 0.60 |

### DISCHARGE WATTS PER CELL FOR 12 SLA 12 AT 77°F (25°C)

| V/cell | HOURS |      |      |      |      |      |      |      |      |      |      |
|--------|-------|------|------|------|------|------|------|------|------|------|------|
|        | 1     | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 10   | 12   | 20   |
| 1.65   | 15.5  | 9.00 | 6.49 | 5.14 | 4.29 | 3.70 | 3.25 | 2.91 | 2.41 | 2.03 | 1.26 |
| 1.70   | 15.5  | 8.99 | 6.48 | 5.14 | 4.29 | 3.69 | 3.25 | 2.91 | 2.41 | 2.03 | 1.26 |
| 1.75   | 15.5  | 8.98 | 6.48 | 5.13 | 4.28 | 3.69 | 3.25 | 2.90 | 2.41 | 2.03 | 1.26 |
| 1.80   | 15.4  | 8.97 | 6.47 | 5.13 | 4.28 | 3.68 | 3.24 | 2.90 | 2.40 | 2.02 | 1.26 |
| 1.85   | 15.0  | 8.81 | 6.38 | 5.07 | 4.24 | 3.66 | 3.21 | 2.88 | 2.38 | 1.99 | 1.23 |
| 1.88   | 14.4  | 8.52 | 6.19 | 4.92 | 4.12 | 3.56 | 3.14 | 2.81 | 2.33 | 1.95 | 1.20 |

### TECHNICAL SPECIFICATIONS

- ▶ **Capacities:** 12 AH at C8 to 1.75 VPC at 25°C
- ▶ **Recommended Float Voltage:** 13.56 V at 25°C
- ▶ **Temperature Compensation:** -15mV/°C
- ▶ **Maximum Charge Current:** 3 A
- ▶ **Self-Discharge at 77°F (25°C):** <2% per month
- ▶ **Short Circuit Current:** 500 A
- ▶ **Internal Resistance:** 24 mohm
- ▶ **Weight:** 12.35 lb. (5.6 kg)
- ▶ **Terminals:** M6
- ▶ **Terminal Torque:** 50-55 in. lbs (5.6-6.2 Nm)

