



FIAMM



FIAMM's **Monolite 12SLA30** 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 12SLA30** 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, CEV's, and Central Offices.

Monolite

Model 12 SLA 30
12-volt, 30 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
- ▶ **Handles:** handles integrated into the cover to aid in handling, installing and removing the batteries

STANDARDS COMPLIANCE

The 12SLA30 meets the requirements of the following industry standards:

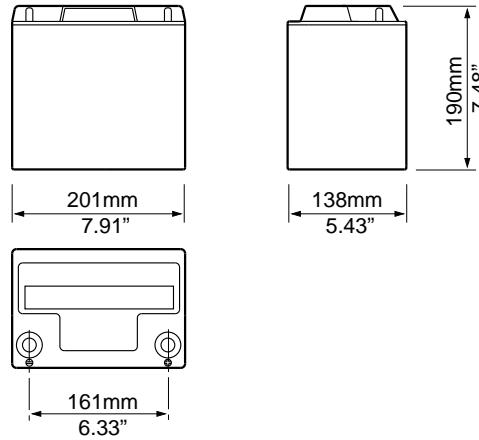
- ▶ ANSI T1.330-1997
- ▶ British Standard BS 6290 Part 4
- ▶ British Standard 6334 method FV0
- ▶ Eurobat Guide - 12 years and longer "long life"
- ▶ IEC 707 FV0
- ▶ IEC 896 Part 2
- ▶ Telcordia (Bellcore) SR-4228
- ▶ Telcordia (Bellcore) TR-NWT-000766
- ▶ Telcordia (Bellcore) TR-NWT-000909
- ▶ Telcordia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

Telecommunications Standby Batteries



Monolite Model 12 SLA 30

1394787
07.02



DISCHARGE AMPERES FOR 12 SLA 30 AT 77°F (25°C)

| V/cell | HOURS | | | | | | | | | | |
|--------|-------|------|------|------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 20 |
| 1.65 | 20.4 | 11.5 | 8.22 | 6.53 | 5.46 | 4.75 | 4.20 | 3.77 | 3.11 | 2.62 | 1.65 |
| 1.70 | 20.1 | 11.3 | 8.18 | 6.51 | 5.44 | 4.73 | 4.19 | 3.76 | 3.10 | 2.61 | 1.64 |
| 1.75 | 19.6 | 11.2 | 8.12 | 6.47 | 5.41 | 4.71 | 4.17 | 3.74 | 3.08 | 2.59 | 1.63 |
| 1.80 | 19.1 | 11.0 | 8.03 | 6.41 | 5.38 | 4.68 | 4.14 | 3.71 | 3.05 | 2.57 | 1.61 |
| 1.85 | 18.5 | 10.5 | 7.53 | 5.97 | 5.03 | 4.43 | 3.93 | 3.53 | 2.92 | 2.46 | 1.55 |
| 1.88 | 17.9 | 10.1 | 7.27 | 5.76 | 4.86 | 4.21 | 3.72 | 3.32 | 2.73 | 2.30 | 1.44 |

DISCHARGE WATTS PER CELL FOR 12 SLA 30 AT 77°F (25°C)

| V/cell | HOURS | | | | | | | | | | |
|--------|-------|------|------|------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 20 |
| 1.65 | 37.4 | 21.4 | 15.7 | 12.5 | 10.5 | 9.13 | 8.09 | 7.26 | 5.96 | 5.03 | 3.15 |
| 1.70 | 37.4 | 21.4 | 15.6 | 12.5 | 10.5 | 9.12 | 8.08 | 7.25 | 5.95 | 5.03 | 3.15 |
| 1.75 | 37.0 | 21.4 | 15.6 | 12.5 | 10.5 | 9.11 | 8.07 | 7.24 | 5.95 | 5.02 | 3.15 |
| 1.80 | 36.6 | 21.2 | 15.6 | 12.5 | 10.5 | 9.11 | 8.06 | 7.23 | 5.94 | 5.02 | 3.14 |
| 1.85 | 36.0 | 20.6 | 14.8 | 11.8 | 9.92 | 8.73 | 7.76 | 6.97 | 5.76 | 4.86 | 3.06 |
| 1.88 | 35.1 | 20.1 | 14.4 | 11.4 | 9.65 | 8.36 | 7.39 | 6.59 | 5.42 | 4.57 | 2.86 |

TECHNICAL SPECIFICATIONS

- ▶ **Capacities:** 30 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:** 8 A
- ▶ **Self-Discharge at 77°F (25°C):** <2% per month
- ▶ **Short Circuit Current:** 1300 A
- ▶ **Internal Resistance:** 9 mohm
- ▶ **Weight:** 30.86 lb. (14.0 kg)
- ▶ **Terminals:** M8
- ▶ **Terminal Torque:** 65-70 in. lbs (7.3-8.0 Nm)



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