

FIAMM's Monolite 4SLA150 valveregulated, 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 4SLA150 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.


## 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 it's 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 GOMPLIANCE

The 4SLA150 meets the requirements of the following industry standards:

- ANSI T1.330-1997
- British Standard BS 6290 Part 4
- British Standard 6334 method FVo
- Eurobat Guide - 12 years and longer "long life"
- IEC 707 FVO
- 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


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## Manolite moda 4 SIA 150



DISCHARGE AMPERES FOR 4 SLA 150 AT $77^{\circ} \mathrm{F}\left(25^{\circ} \mathrm{C}\right)$

| V/cell | HOURS |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{1 0}$ | $\mathbf{1 2}$ | $\mathbf{2 0}$ |
| $\mathbf{1 . 6 5}$ | 102 | 57.9 | 41.7 | 33.1 | 27.7 | 24.1 | 21.3 | 19.1 | 15.8 | 13.3 | 8.34 |
| $\mathbf{1 . 7 0}$ | 101 | 57.2 | 41.5 | 33.0 | 27.6 | 24.0 | 21.2 | 19.0 | 15.7 | 13.2 | 8.30 |
| $\mathbf{1 . 7 5}$ | 98.3 | 56.5 | 41.1 | 32.7 | 27.4 | 23.8 | 21.1 | 18.9 | 15.6 | 13.1 | 8.24 |
| $\mathbf{1 . 8 0}$ | 95.8 | 55.3 | 40.6 | 32.4 | 27.2 | 23.7 | 20.9 | 18.8 | 15.2 | 13.0 | 8.15 |
| $\mathbf{1 . 8 5}$ | 92.8 | 52.8 | 38.0 | 30.1 | 25.4 | 22.4 | 19.9 | 17.8 | 14.7 | 12.4 | 7.82 |
| $\mathbf{1 . 8 8}$ | 89.6 | 51.1 | 36.6 | 29.0 | 24.5 | 21.2 | 18.7 | 16.7 | 13.7 | 11.6 | 7.24 |

DISCHARGE WATTS PER CELL FOR 4 SLA 150 AT $77^{\circ} \mathrm{F}\left(25^{\circ} \mathrm{C}\right)$

| V/cell | HOURS |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{1 0}$ | $\mathbf{1 2}$ | $\mathbf{2 0}$ |  |
| $\mathbf{1 . 6 5}$ | 187 | 107 | 78.2 | 62.5 | 52.4 | 45.6 | 40.4 | 36.3 | 29.8 | 25.2 | 15.8 |  |
| $\mathbf{1 . 7 0}$ | 187 | 107 | 78.1 | 62.4 | 52.4 | 45.6 | 40.4 | 36.2 | 29.7 | 25.1 | 15.7 |  |
| $\mathbf{1 . 7 5}$ | 185 | 107 | 78.1 | 62.4 | 52.3 | 45.5 | 40.3 | 36.2 | 29.7 | 25.1 | 15.7 |  |
| $\mathbf{1 . 8 0}$ | 182 | 106 | 78.0 | 62.3 | 52.3 | 45.5 | 40.3 | 36.2 | 29.7 | 25.1 | 15.7 |  |
| $\mathbf{1 . 8 5}$ | 179 | 103 | 74.1 | 58.8 | 49.6 | 43.6 | 38.8 | 34.8 | 28.8 | 24.3 | 15.3 |  |
| $\mathbf{1 . 8 8}$ | 175 | 100 | 72.0 | 57.1 | 48.2 | 41.8 | 36.9 | 32.9 | 27.1 | 22.8 | 14.3 |  |

## IECHNIGAL SPECIFIGATIONS

- Capacities: 150 AH at C 8 to 1.75 VPC at $25^{\circ} \mathrm{C}$
- Recommended Float Voltage: 4.52 V at $25^{\circ} \mathrm{C}$
- Temperature Compensation: $-5 \mathrm{mV} /{ }^{\circ} \mathrm{C}$
- Maximum Charge Current: 38 A
- Self-Discharge at $77^{\circ} \mathrm{F}\left(25^{\circ} \mathrm{C}\right)$ : $<2 \%$ per month
- Short Circuit Current: 5000 A
- Internal Resistance: 0.7 mohm

Weight: 44.53 lb . 20.2 kg )

- Terminals: M8

Terminal Torque: 65-70 in. lbs (7.3-8.0 Nm)

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