

# FIAMM

Industrial Batteries

ENDURLITE

## OPzS Bloc

### Applications and Key Benefits

- + 6V and 12V OPzS blocs, designed for outstanding cycling performance in hard conditions
- Ideal for:
- IT and Telecom network operations
  - Power plants and power distribution
  - Emergency lighting and Security
  - Switchgear
  - Automation & Industrial backup power
  - Railway, Airport & Seaport signaling
  - Other applications in areas with unreliable power supply
- + Tubular positive plates
  - + Multi-cell design for easy and compact installation
  - + Dimensions according to DIN 40737 OPzS blocs, compatible with existing installations
  - + Outstanding cycling performance
  - + Suitable for use at elevated temperature and reliable operation in difficult conditions
  - + Optimized for deep discharge recovery DIN 43539T5
  - + Up to 15 years design life in float operation in temperature controlled environments
  - + 100% Recyclable

### Applicable Standards

- DIN 40737 - specification OPzS blocs
- DIN 43539T5 - deep discharge
- IEC 60896 Part 11 - vented types requirements & tests

### Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

### Technical Features

- Tubular positive plates with special low < 2% antimony lead alloy reduces loss of water (3-year topping-up intervals on float condition)
- Active material contained in polyester fiber gauntlet ensures extended long life
- Electrolyte: high purity sulphuric acid solution with 1.24 specific gravity at 20°C
- Pasted negative grid plates designed to have service lives consistent with the positive plates
- Separators with extremely high porosity and low internal resistance
- Container in impact and acid resistant SAN, designed for unsurpassed mechanical strength
- Translucent container for easy maintenance
- Lid in opaque SAN, sealed to the container
- Threaded female M10 terminal posts guarantee highest conductivity, maximum torque retention and easy installation
- High integrity post seal design to prevent electrolyte leakage and terminal corrosion
- Ceramic plugs filter electrolyte from escaping gasses
- Flame arrestors prevent errant sparks or flames from entering the battery (flashback)
- < 3% self-discharge per month at 20°C allows 6 months shelf life
- Installation in vertical position
- Flexible, fully insulated cable connectors with insulated screw with probe hole on the top for electrical measurement

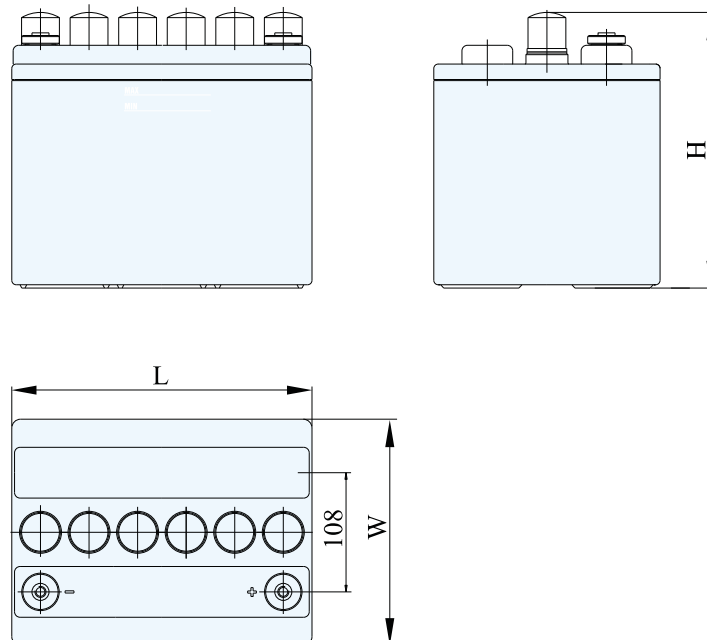


**ENDURLITE****OPzS Bloc****FIAMM OPzS Bloc range**

DIN 40736	CAPACITY (Ah) at 20°C				IEC 896-11		WEIGHT (kg)		DIMENSIONS (mm)		
	10 hrs to 1.80 VPC	5 hrs to 1.77 VPC	3 hrs to 1.75 VPC	1 hrs to 1.67 VPC	INTERNAL RESISTANCE (mOhm)	SHORT CIRCUIT CURRENT (A)	without electrolyte	with electrolyte	Length	Width	Height
12V 1 OPzS 50	51	41	38	28	20	613	26	39	272	205	392
12V 2 OPzS 100	103	82	76	57	9.3	1290	38	50	272	205	392
12V 3 OPzS 150	154	123	114	85	6.9	1739	53	69	380	205	392
6V 4 OPzS 200	204	167	149	115	2.2	2703	36	47	272	205	392
6V 5 OPzS 250	255	209	187	144	1.9	3175	44	61	380	205	392
6V 6 OPzS 300	307	251	224	172	1.6	3846	52	68	380	205	392

**Electrical Characteristics**

- ✚ FLOAT VOLTAGE PER CELL: 2.23 - 2.25 Volts
- ✚ BOOST CHARGE: 2.35 - 2.40 V/cell
- ✚ SELF DISCHARGE: approx 3% per month at 20°C

**Dimensions**

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