Atelier Boonen - Asecos ION-ULTRA 90



Additional information

brand: Asecos

Asecos ION-ULTRA 90 – High-end safety cabinet for charging and storing lithium batteries

The Asecos ION-ULTRA 90 is a premium safety cabinet, designed for the secure storage and charging of lithium-ion batteries. With 90 minutes of fire resistance, tested both from outside to inside and from inside to outside, it provides maximum protection against battery fires and external fire exposure. The cabinet is certified according to EN 14470-1, EN 1363-1 and the new VDMA 24994 (class I/O90).

Insulated shelves prevent fire spread between storage levels. Smoke and temperature sensors ensure early detection, while an LED display with visual and acoustic alarm provides immediate warning. Via potential-free contacts, the alarm system can be connected to a fire alarm panel, control room or building management system; the connection and the follow-up of alarms must be provided for this. An automatic extinguishing system is optionally available.

An integrated ventilation system prevents heat build-up during charging and allows connection to external exhaust. This keeps the temperature stable and ensures safe removal of smoke gases.

Combining robust construction with intelligent monitoring, one-hand operation, self-closing doors and a transport base for easy relocation, the ION-ULTRA 90 sets the benchmark for safe lithium battery storage and charging.

How many batteries you may store in a cabinet and what to watch for when charging is explained in our guide to the storage of hazardous substances.

See also our other safety cabinets for batteries, supplied and installed by our own team in Belgium.

- 90-minute fire resistance (outside-in), tested to EN 14470-1
- 90-minute fire resistance (inside-out), tested to EN 1363-1

- Tested to VDMA 24994 grade IO90 for thermal runaway and internal fire protection
- Maximum battery energy according to VDMA 24994: 3.3 kWh per storage level; per cabinet 9.9 kWh with 3 levels, 13.2 kWh with 4 and 16.5 kWh with 5 or 6 levels
- Maximum 15 kg per battery; do not store visibly damaged batteries in the cabinet
- CE compliant
- Isolated shelves prevent fire spread between battery levels
- Integrated LED alert with visual and acoustic signals
- Smoke detector and two temperature sensors, connectable to BMS
- Optional automatic fire suppression system
- Temperature-controlled ventilation reduces heat build-up
- Volt-free alarm contacts; optional telecom module available
- Three-point door locking system, fire-tested
- Integrated transport base for relocation or evacuation
- Fitted with integrated electrical installation
- Total power capacity:
  - Single-phase: 16 A / 3.68 kW
  - Three-phase: 3 × 16 A / 11.04 kW
- Number of outlets per strip: 8

Model specifications

Model	Outer dimensions (mm)	Internal dimensions (mm)	Volume (L)	Weight (kg)	Shelves
Asecos IO90.195.120.065.WDEL	H1953 W1193 D650	H1633 W1050 D545	974 L	615 kg	0