CBC - CELSION BATTERY CASE

30 FIRE PROTECTION - FLOOR AND WALL STANDING SYSTEM

Without permanent cooling in critical condition to prevent thermal runaway

CELSION®
Brandschutzsysteme GmbH

CBC
Series

CBC small or big
Celsion Battery Case - Furnishing item

Fire resistance: 30 minutes
Fire from inside and outside: 30 minutes

example design

Areas of application - escape routes and corridors in:

Residential and office buildings
Industrial buildings
Shops/salesrooms
Schools and childcare centres
Nursing homes and hospitals
Public meeting places
Restaurants and hotels

Scope of application

Fire load insulation

- to protect emergency escape routes

Fire resistance

- for fires from inside

Smoke-retardant

- with a surrounding seal to prevent smoke penetration

As an option, the system can also be upgraded or adapted with the following components:

- ☐ Battery tray, which prevents leakage of battery acid
- ☐ Fire detector
- ☐ Extinguishing cartridge which, in conjunction with the fire detector, delays the spread of fire
- ☐ Lock cylinder in the swing lever
- ☐ Fan
- ☐ Ventilation openings

European basis of development/ scope of testing compliant with:

- **EN 1634-3**
- **EN 1363-1**
- **EN 13501-1+A1**
- **EN 13501-2+A1**
- **ČSN 73 0848**

Based on $EI_1 30$ Based on $EW 30$

Celsion Battery Case

Celsion Battery Cases are suitable for storage and charging of undamaged batteries, especially lithium-ion batteries, e.g. of e-bikes and e-scooters or other small batteries, which can be placed in the enclosure with enough distance. When installing the system, it must be ensured that the usual ambient temperatures of approx. 20°C must be maintained and the system is mounted to a solid F30 wall.
When installing in staircases or necessary corridors, it is important to note, that the version with the approval „fire from the inside" is selected, so that it meets the possible building law requirements. Ventilation may have to be omitted.

The **Celsion-CBC** enclosure series is available in various versions:

On the one hand with an approval (aBZ, e.g. series FWE) on the basis of the MLAR guideline point 3.2.2, if e.g. storage, charging or discharging of batteries or chargers is to take place in escape routes (entrance areas, stairwells and associated corridors, etc.).

Alternatively, it is possible to use a tested system without building code requirements, e.g. based on the VdS Recommendation 3471 2020-06 (currently still a draft) with a fire-resistand enclosure/cabinet system to ensure the following: For example, when charging the batteries of pedelecs or e-bikes, the requirements set out in the above-mentioned VdS, point 12 „Charging of pedelecs or e-bikes", the fire-protected environment required under e) or charging in a suitable cabinet system under q) is assured.

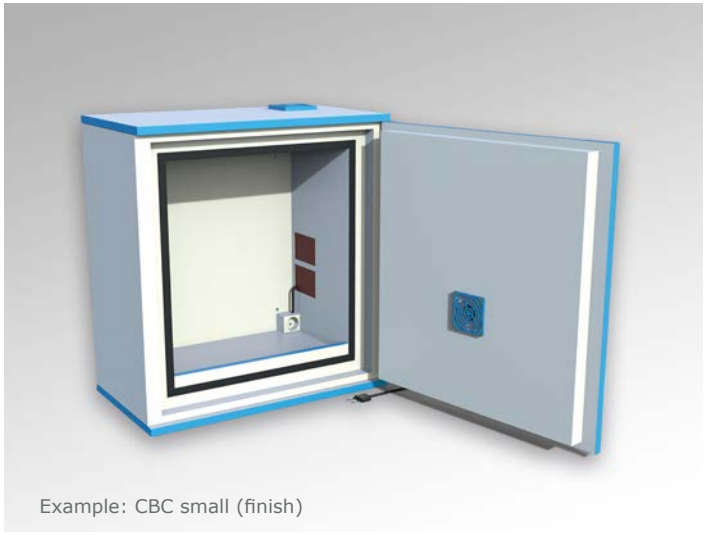
According to the research report no. 159 „Special features and risks of alternatively powered vehicles" from the year 2020 of the Karlsruhe Institute of Technology (KIT) - Research Center for Fire Protection Technology, the charging process of a lithium-ion battery can be a potential fire hazard. Various influencing factors can cause pre-damage to the battery, for example in two-wheeled electric vehicles (e-bikes, pedelecs...) or small electric vehicles, which are often not directly recognizable for the user, but, in worst case, can lead to critical conditions, such as a fire, when the battery is being charged.

Product series **Celsion–CBC** small with individual equippable cable entry can be ordered as a wall mounting cabinet with internal dimensions 550 x 500 x 290 mm (HxWxD) and outer dimensions 728 x 678 x 365 mm (HxWxD).
The system can be additionally equipped with a permanently installed socket.

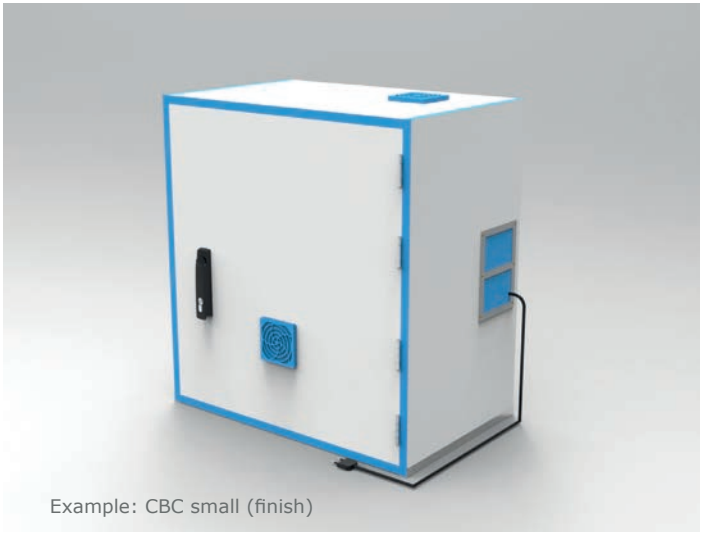
Product series **Celsion–CBC BIG** has internal dimensions of 1600 x 900 x 400 mm (HxWxD) and outer dimensions of 1778 x 1078 x 494 mm (HxWxD). The system is available as a floor standing cabinet with shelves (load capacity per shelf max. 100kg) and a floor tray. It can be ordered with wall or floor mounting (free standing) material.

Versions

Celsion-CBC small



Example: CBC small (finish)



Example: CBC small (finish)

Celsion-CBC BIG

Example: CBC Big

Example: CBC Big

As of September 2023

Please refer also to:

the current MLAR (Fire Protection Guidelines for Circuit Systems) and MVVTB (Administrative Rules – Technical Building Regulations)

MVB-035-2021-05
Fire protection when handling lithium-ion-batteries

the VdS recommendation 3471 2020-06 (currently still a draft) especially point 8 and point 12

or the individual state orders and guidelines, administrative rules and technical building regulations valid in the individual German federal states

as well as the EU-Battery-Regulation (BattVO).

You can obtain further information from the main catalogue, the operating and assembly instructions and the proof of suitability.

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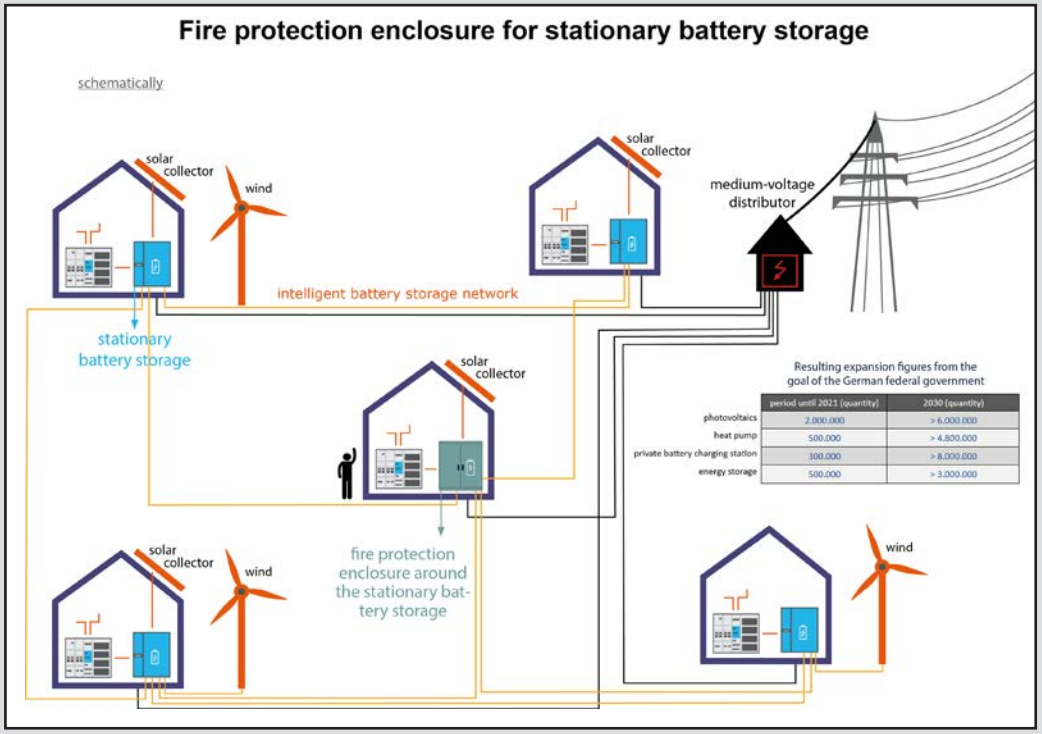

Munich - Technical Office

Celsion Brandschutzsysteme GmbH
Ohmstraße 3, 2. OG
D-85716 Unterschleißheim
Tel.: +49 (0) 89 / 720 577 - 20
Fax: +49 (0) 89 / 720 577 - 22
E-Mail: vertrieb@celsion.de

Berlin - Technical Office

Celsion Brandschutzsysteme GmbH
Brunnenstraße 156
D-10115 Berlin
Tel.: +49 (0) 3591 / 270 78 – 0
Fax: +49 (0) 3591 / 270 78 – 19
E-Mail: vertrieb@celsion.de

Mainz - Technical Office

Celsion Brandschutzsysteme GmbH
Am Weinkastell 16
55270 Klein-Winternheim
Tel.: +49 (0) 3591 / 270 78 – 0
Fax: +49 (0) 3591 / 270 78 – 19
E-Mail: vertrieb@celsion.de

Bautzen - Administration

Celsion Brandschutzsysteme GmbH
Dresdener Straße 51
D-02625 Bautzen
Tel.: +49 (0) 3591 / 270 78 – 0
Fax: +49 (0) 3591 / 270 78 – 19
E-Mail: office@celsion.de

Dresden - Headquaters

Celsion Brandschutzsysteme GmbH
Cäcilienstraße 5
D-01219 Dresden
Tel.: +49 (0) 351 / 272 046 – 0
Fax: +49 (0) 351 / 272 046 – 29
E-Mail: dresden@celsion.de

Local contact persons