CEMO

for safe storage

LI SAFE

Charge and store lithium batteries safely.

Solutions for more safety and less risk.

Lithium batteries are hazardous goods

Protect your employees and the existence of your company.

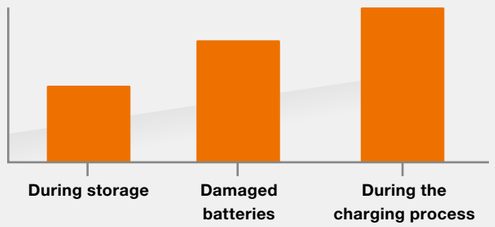
Most lithium battery fires occur during charging

They are available in a variety of sizes, are present in nearly every business and have become an everyday object: lithium batteries/-cells. But just how dangerous they are often only becomes apparent when it is too late. Lithium batteries/-cells frequently catch fire and cause explosions, accidents and fires in buildings.

The risk cannot be removed completely, and there is no legislation on standards. But you can still increase the level of safety in your company by installing CEMO products for safe charging, storing, collecting and transporting. The simple and efficient CEMO safety concept is as follows: Separate charging and storage!

Fires, explosions, accidents

Occurence of fires during processes:



Other causes:

- Overcharging
- Deep discharging
- Overheating
- Mechanical damage
- Defective chargers
- Wear and tear

The CEMO safety concept

Separate charging and storage!

Most fires occur during the charging phase. Charging limited numbers of batteries in a cabinet will reduce the fire load and increase the level of safety in your company.

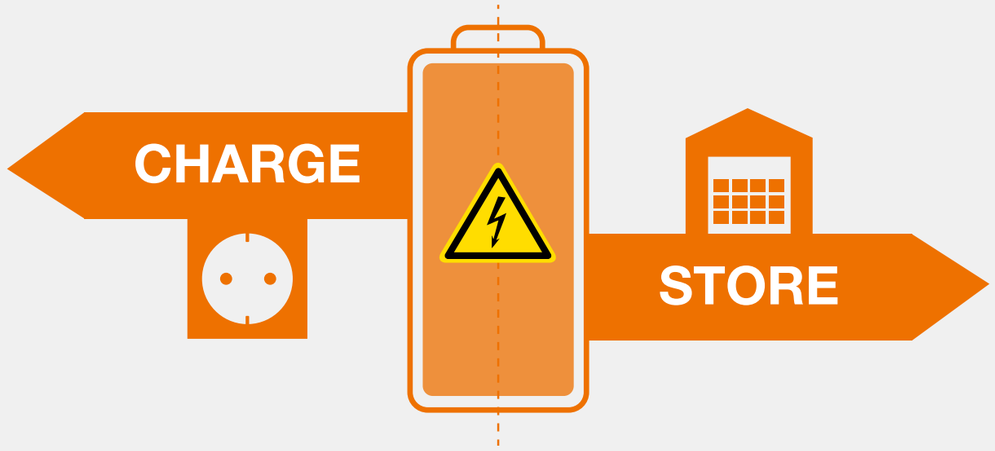
The compact safety cabinet from CEMO has been specially developed for lithium batteries/-cells.

It enables lithium batteries/-cells to be charged or stored safely due to its special safety measures.

Use one safety cabinet to charge the lithium batteries/-cells and another to store them. Stack them and expand the safety units according to your needs.

The Solution:
Separate charging and storage

Charge and store separately – for greater safety



The benefits of separated safety units:

- Increased safety during the risky charging phase
- Reduced fire load
- Early alert in the event of damage
- Rapid evacuation in the event of fire
- Can be set up in a decentralised manner
- Certified fire protection from inside to outside
- Safety measures specially developed for lithium batteries/-cells
- Suitability proven in laboratory fire test

Special intumescent gaskets prevent flames from escaping

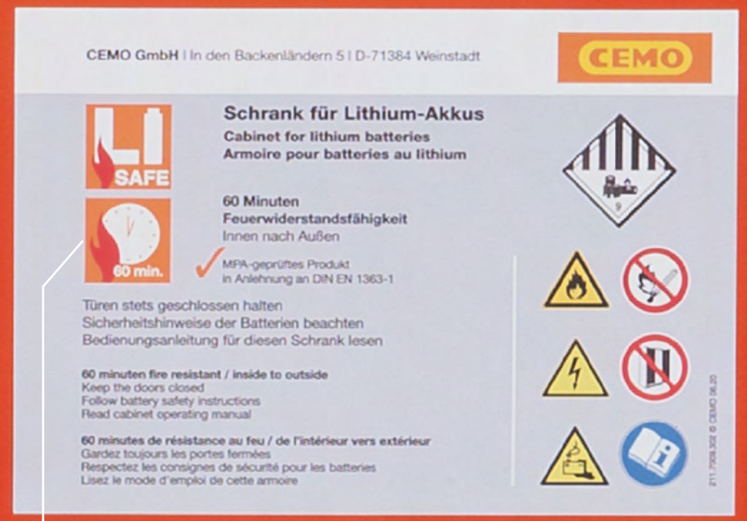
Lock in safety.
Lock out hazards.

Spring-based lockEX®-door lock for controlled pressure relief during explosions

Carry handles on the external housing: can be transported into position at the installation site

Non-flammable construction with certified components

Lockable doors with robust lock and hinges



Fire resistance
60 minutes from inside to outside as per DIN EN 1363-1

Output for alarm signal
Floating contact on the cabinet exterior (Premium model and up)

A good combination.

Storage & charging

Certified by the TÜV Nord Group through new testing programme

The TÜV-tested CEMO cabinets for lithium batteries combine safety and flexibility. The modular design and various cabinet versions make it easy to adjust the storage space to suit your requirements.

Whether with castors, forkliftable, stackable, or as an under-table cabinet – simply select the version that best suits your needs. All versions can be moved to a protected area quickly and easily if a fire should break out (see Accessories).

Certificate for **fire resistance**

Certificate for **real battery fire testing**

Certificate for **gas explosion protection**

Unique.

Controlled pressure relief as explosion protection

If a defective lithium battery explodes, this can blow the cabinet doors open and thereby completely nullify the protective properties.
With the patented lockEXspring design, the cabinet door is only pushed open a little and is then immediately pulled closed again and re-locked. This dissipates the explosive pressure.

CEMO

Safety in every model

Decide on the model that is right for your business.

Battery storage cabinet 8/5

Battery charging cabinet 8/5 Basic

Battery charging cabinet 8/20 Premium Plus

Battery charging cabinet 8/5 Premium

Battery charging cabinet 8/5 Premium Plus

Battery charging cabinet 8/10 Premium Plus

Model	Battery storage cabinet			Battery charging cabinet Basic			Battery charging cabinet Premium			Battery charging cabinet Premium Plus		
	8/5	8/10	8/20	8/5	8/10	8/20	8/5	8/10	8/20	8/5	8/10	8/20
Tested LockEX door lock with pressure relief		●			●			●			●	
Battery fire suitability (= tests with real battery fire and gas explosion)		●			●			●			●	
Fire resistance 60 minutes from inside to outside		●			●			●			●	
Smoke (alarm) detector	Battery operated			Battery operated			Mains operated			Mains operated		
Audible alarm		●			●			● Accessories: audible + visual			● Accessories: audible + visual	
Fan to dissipate heat from charging					●			●			●	
Socket outlet strip for charging					●			●			●	
Charging stops if door is opened (door contact switch)					●			●			●	
Charging station is de-energised				if heat develops			if smoke and heat develops			if smoke and heat develops		
Connection option via floating contact to the company's internal building control system								●			●	
Remote alarm (mobile phone)											SIM card	
External digital display											●	
Power supply 1-phase (230 V) /3-phase (400 V)				230 V	230 V / 400 V		230 V	230 V / 400 V		230 V	230 V / 400 V	
Optionally stackable	●	-	-	●	-	-	●	-	-	●	-	-

Safety in every phase

Solutions for lithium batteries and cells

During **charging**, **storage** or **separation / transportation**:
lithium batteries must always be well protected.
We can provide an all-round range of safety products.

We are happy to help!

Contact us.

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Charge safely

Available in 2024

Charging cabinet
Reduced propagation of fire, early alarm: the compact safety cabinet from CEMO has been designed for the hazardous charging process for lithium batteries.

Store safely

Safety cabinets and fire protection containers
The battery safety cabinet has a fire resistance of 90 minutes as per DIN EN 14470-1.

The safe cabinets and containers are available in several different sizes. Decide on a safe storage solution that is appropriate for your business.

Transport safely

Collection and transport containers
Our tested and approved container solutions are also ideal for collecting, transporting and separating damaged or faulty batteries in line with fire protection requirements.

You can find all of the products here:
www.battery-secure.com

for safe storage

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