

HOUSE OF EVENTS HOME OF YOUR INDUSTRY



Exhibiting with lithium-ion battery packs

We are happy to help you prepare for your participation. Safety always comes first. That is why we would like to inform you about the safe use of lithium-ion battery packs and batteries when exhibiting. Together, we ensure a safe and welcoming RAI Amsterdam.

EXHIBITING WITH CONDITIONS

Batteries and battery packs are essential to the success of many events. They are used not only during the build-up and break-down in equipment and machines, but also during the events themselves, often as part of the product demonstrations.

However, using batteries and battery packs also carries risks. It is important that everyone working at the RAI or attending an event here is aware of the risks and takes the necessary precautions.

The recommended measures and conditions mainly apply to the battery type that poses the highest fire risk, lithium-ion batteries - due to the potential for thermal runaway.

Lead-acid and nickel-cadmium batteries are not a fire risk. These battery types cannot cause thermal runaway. That's why, under supervision, they may be charged and discharged in a designated space within the RAI, assigned by RAI Real Estate (realestate@rai.nl).

USING LITHIUM-ION BATTERIES

Lithium-ion batteries and battery packs are divided into four categories based on their capacity (kWh):

- > Small battery pack 0 to \leq 0.3 kWh
(laptops, mobile phones, power banks)
- > Medium battery pack > 0.3 to \leq 20 kWh
(e-bikes, sweeping machine)
- > Large battery pack > 20 to \leq 150 kWh
(electric cars)
- > Very large battery pack > 150 kWh
(Energy Storage System, ESS)

On the next page (Matrix 1), you will find an overview of which lithium-ion batteries and battery packs are permitted, based on size, use, and location.

At the request of our Health & Safety department, you must be able to provide proof of the size (capacity) of the lithium-ion battery or battery pack you are using.

BETTER SAFE THAN SORRY

This document outlines the agreements regarding the use of lithium-ion batteries and battery packs. Please also ensure you read the full facility regulations to be fully informed.

 **FACILITY REGULATIONS**
[CLICK HERE](#)

LOCATIONS WHERE DIFFERENT SIZES OF BATTERY PACKS ARE PERMITTED

To make the measures manageable, the battery packs are divided into four groups: small, medium, large, and very large.

Within these groups, we also distinguish between the presence of the battery packs and the charging and discharging of battery packs. This distinction is important. Research shows that charging and discharging is the moment with the highest fire risk.

MATRIX 1

LITHIUM-ION BATTERY PACKS								
Location	Small 0 ≤ 0.3 kWh		Medium > 0.3 ≤ 20 kWh		Large > 20 ≤ 150 kWh		Very large > 150 kWh	
	Discharging	Charging	Discharging	Charging	Discharging	Charging	Discharging	Charging
Exhibition / event (inside)	Yes	Yes	Yes	No	Yes	No	Yes***	No
Exhibition (build-up & break-down, inside)	Yes	Yes	Yes	Yes**	Yes	Yes*	Yes***	No
Congress and meeting rooms	Yes	Yes	Yes	No	No	No	No	No
Parking garage	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes****	No
RAI premises (outside)	Yes	Yes	Yes	Yes	Yes	Yes***	Yes***	Yes***

* Only permitted in rooms with a sprinkler system.

** Only permitted if the surface area is less than 2 m² and the distance to combustible materials is less than 2 m.

*** Only permitted if the distance to the facade or combustible materials is more than 10 m.

**** Only permitted if the distance to the facade or combustible materials is more than 10 m and the room is fitted with a sprinkler system.

EXAMPLES

Small Light, portable, movable	Medium Heavy, portable, movable	Large Fixed, heavy, difficult to move	Very large Building-integrated, non-movable
Laptop	Mobility scooter	Electric car	Electric truck
Mobile phone	Small EVs (golf carts)	Portable battery pack	Emergency power supply
Power bank	Backup power supply		Community battery
Tablet	E-bikes		EOS