



**C&D ELETTRONICA** SRL

BERGAMO 24126  
Via Oprandi, 17  
Tel. 035 199 55 011  
Fax 035 199 55 099

E-COMMERCE  
www.cedelettronica.com  
E-MAIL  
mail@cedelettronica.com  
cedelettronica@pec.it

[WWW.CEDELETRONICA.COM](http://WWW.CEDELETRONICA.COM)



LABORATORIO EMC  
PROVE DI COMPATIBILITA'  
ELETTROMAGNETICA



[WWW.MTEK.IT](http://WWW.MTEK.IT)

C.F. 00895950160  
P.IVA IT00895950160

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Registro A.E.E. n.IT0802000003208  
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FIRE SAFETY CONCEPTS

Real fire and  
explosion proofed by  
 **DMT**  
A company of  
**TUV NORD GROUP**  
Excellence for your Business





# Why we use the RACLAN box for safe Charging and storing lithium-ion batteries have developed: Because we want to protect people and the environment.

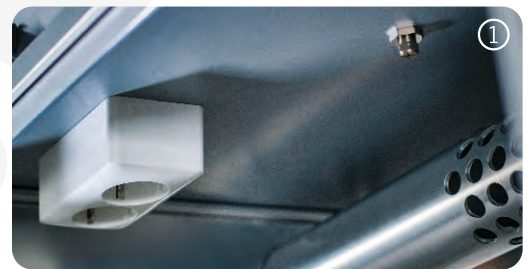


Lithium batteries have been an integral part of our everyday lives for several years. More and more compact and powerful batteries are being developed and are thus constantly expanding the possible applications for wireless devices.

The explosive burning of a battery (thermal runaway) is increasingly causing severe fire damage and personal injury. The Swedish institute RISE (Research Institutes of Sweden) has published a far-reaching study that describes the enormous risk of lithium batteries.

## Functions of the RACLAN-Box

The lithium batteries are placed in the box together with the chargers and connected ①. The front flap is then securely closed ②. Now the power supply is switched on and monitoring electronics control the charging process and the interior of the box.



If the system detects a rise in temperature or smoke gas, it immediately reports an optical and acoustic alarm. A WLAN connection to the house alarm system is also possible.



In the event of an alarm, the pressure-free extinguishing system sprays an environmentally friendly extinguishing agent and coolant over the batteries, thereby stopping the fire. The resulting mixture of smoke and gas is routed through filters in the exhaust gas management system so that no toxins can escape to the outside.



## Compelling advantages:

- Non-flammable case
- Extinguishes extremely fast
- Ultra-light weight
- Very simple handling
- Explosion proof
- Integrated pressure-free extinguishing and cooling system
- Safe to use in enclosed spaces
- Environmentally friendly and biodegradable
- Free from hazardous materials
- Real fire and explosion proofed by DMT (TÜV NORD)
- Emergency power supply for the monitoring electronics



# RACLAN Box



## Product Description

The RACLAN box was developed for the safe charging and storage of lithium-ion batteries.

## Functional Description

As soon as a critical temperature rise is detected inside the casing, the charging function switches off and the extinguishing agent is released. The release can take place with a time delay.

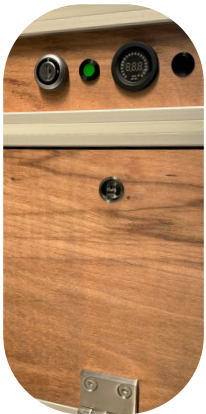
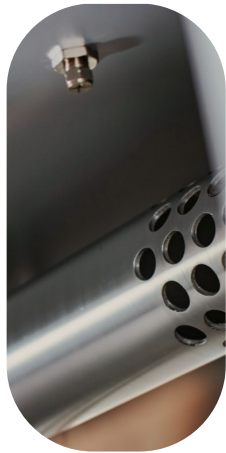
## Product Data

Product name:	RACLAN- Box
Weight:	24,7kg (incl. extinguishing agent)
Dimensions (L x W x H):	580mm x 380mm x 380mm
Colour:	anthracite / silver / white (other colours on request)
Extinguishing Agent:	TRIDENT®
Quantity:	5,5 litre
Extinguishing Amount:	11 Liter
Extinguishing Agent Durability:	10 Years

## Maximum Battery Capacity (including charger)

Max. single capacity: 877Wh lithium-ion-batterie  
Max. total capacity: 1.754Wh lithium-ion-batterie

# RACLAN Square Box



## Product Description

The RACLAN Square Box was developed for the safe charging and storage of lithium-ion batteries on land and the maritime areas.

## Functional Description

As soon as a critical increase in temperature is detected within the box, the charging function switches, the extinguishing agent is released and an alarm signal starts

## Product Data

Product name:	RACLAN-Square-Box
Weight:	Approx 35kg (including agent)
Dimension (L x B x H):	580mm x 580mm x 380mm
Dimension inside (L x B x H):	540mm x 540mm x 235mm
Colour:	Silver – Beechwood (other colours on request)
Extinguishing Agent:	TRIDENT®
Extinguishing Amount:	11 Liter
Extinguishing Agent Durability:	10 Years

## Maximum Battery Capacity (including charger)

Certified by DMT GmbH & Co. KG (DNV accredited, TÜV Nord Group)  
Maximum single battery capacity: 3,5 kWh Lithium-Ion Battery  
Maximale total battery capacity: 3,5 kWh Lithium-Ion Batteries