

SYSTEM: STRAINLOCK



Product description

In the event of an accident, lithium-ion batteries can generate significant thermal, mechanical and chemical stresses. This results in pressure surges, flames and highly toxic reaction gases.

The StrainLock was developed specifically for this hazard scenario and enables the safe storage of lithium-ion batteries, even when damaged or in a critical condition.

An integrated gas management and filtration system reduces the release of toxic reaction gases and contains sparks, flames and particles within the system. The integrated thermal management system limits the heating of external surfaces and prevents the spread of fire into the surrounding area.

The StrainLock is particularly suitable for quarantine areas, workshops, test laboratories and service areas where damaged or critical lithium-ion batteries need to be safely stored or examined.

Main features

safe storage of even critical and defective lithium-ion batteries

a pressure-resistant and mechanically robust design

no emission of sparks, flames, liquids or solids

a certified integrated system for the protection of people and property

Integrated gas delivery and filtration system for reducing toxic reaction gases

lockable to prevent unauthorised access

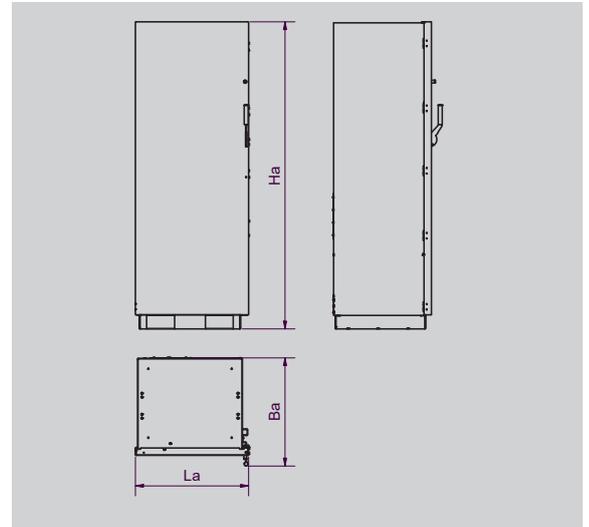
thermal isolation to contain the incident to the affected department

pull-out drawers for ergonomic working

Each dedicated circuit has its own fuse

Product features

Technical data	StrainLock F (Standard)	StrainLock F-S-K	StrainLock F-S-E
External dimensions $L_a \times W_a \times H_a$	718 x 692 x 1,966 mm	718 x 692 x 1,996 mm	718 x 692 x 1,996 mm
Compartment dimensions L x W x H	574 x 535 x 258 mm	574 x 430 x 250 mm	574 x 430 x 250 mm
Unladen weight approx	388 kg	422 kg	425 kg
Load-bearing capacity	5 x 50 kg	5 x 30 kg	5 x 30 kg
Max. energy content (storage)	5 x 2.5 kWh unrestricted	5 x 2.5 kWh unrestricted	5 x 2.5 kWh unrestricted
Approval and compliance	Fire-tested in accordance with ADR SV 376 P 908 / LP 906 for the transport of critically damaged lithium-ion batteries.		
	-	-	CE marked
Input voltage/current	-	-	400 V/16 A



StrainLock F-S-K in RAL 3020

Variants

F: thermally separating shelves

S: pull-out drawers

E: 230 V socket strips with cable management (only in conjunction with pull-out drawers)

K: individually assignable cable entry

Dimensions and colour schemes can be customised to the customer's requirements following prior consultation. As standard, the product is supplied in a single colour: traffic red RAL 3020, as specified in the quotation.

Description of the components

Gas delivery and filtration system

secure locking mechanism

base with castors and levelling function

Fire-retardant shelves (Option F)

full-extension drawers (Option S)

Power strips (Option E)

Cable entry (Option K)