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PRODUCT DATA SHEET Hiltru®: Hiltru® Batterysaver™ F60 BS/FS2 - Charging - (230V / 16 A)



Size Hiltru® Batterysaver™ F60 BS/FS2 - Charging - (230V / 16 A)

Article number	200600200
Fire resistance	F60 (WBDBO) in accordance with NEN6069 (Efectis report)
External dimensions WxDxH	approx. 1744 x 1084 x 2236 mm
Width incl. the E-case	approx. 1864 mm
Internal dimensions WxDxH	approx. 1420 x 740 x 1940 mm
Door, lockable with cylinder lock	double, 1x left and 1x right hinged
Shelf design	4x PE-coated grid shelf
Shelf BxDxH	approx. 1300 x 600 x 25 mm
Mesh size shelf	approx. 30 x 30 mm
Carrying capacity of shelves	up to 110 kg evenly distributed
Fan type / capacity / power / IP class / sound pressure level	SVBS-100 / 195 m ³ / 230-1-50/60 W / 0.37A, IP X4 / approx. 35 dB (A)
Emergency pressure hatch with flange 125 mm	1x approx. 200 x 200 x 200 mm
Li-ion particle filter	1x approx. 200 x 200 mm
Li-ion Extinguisher System o.b.v.	1x FP Extinguisher cartridge 500-S with activation fire detector
Own weight	approx. 650 kg
Load configuration	230V / 16 A power supply
Number of loading positions	12
Charging system	3 tiers with 8-way power strip, fused 13 A

Specifications Hiltra® Batterysaver™ F60 BS/FS2 - Charging - (230V / 16 A)

Version 1.3 15-02-2021

PRODUCT INFORMATION SHEET HILTRA® F60 or F90 BIG SAVER® FS1 & FS2 LION LAAD CONFIGURATION A 3 FOR FIRE SAVING LI-ION BATTERIES STORAGE

The Hiltra Big Savers® are prefabricated fire compartments with a fire resistance of 60 minutes (or optional 90 minutes) in case of a fire load from inside to outside én in case of a fire load from outside to inside.

Designed as an independent fire compartment based on the Building Code and guideline PGS 15: 2016

version 1.0 and based on the Vision of Burghgraef Van Tiel & Partners Version 1.0 dated 18-02-2019 and Ministerial Circular 34193 dated 01-07-2020.

Applicable within PGS 15/Version 1.1 (Sept. 2016) Regulation 3.29/ all criteria R/RE/EI and EI-1 for doors. The version is specifically adapted for charging lithium-ion batteries and features passive and active monitoring of the cabinet contents with special dry aerosol extinguishing cartridge for lithium battery fires.

Certification & Fire resistance:

- Fire resistance 60 (or optionally 90) minutes of the Big Savers® integrally determined according to the NEN 6069, EN 1634-1/EN 13501-2 standard (doors). The composite construction has been assessed by the accredited test institute Efectis®.
- Efectis brandwerendheidsrapport: 94-CVB-R1178/2009-Efectis-R0834(Rev.1)/2010-Efectis-R1117-S.
- Dry aerosol extinguishing system KIWA-certified according to KIWA BRL: K-23003/01
- Electrical configuration tested and certified according to EN 3140.

Casing (walls, roof and door):

- Casing made of galvanized sheet piling
- Interior made of non-combustible and insulating material and completely finished with galvanized sheet.
- The roof is equipped on both long sides with an integrated rain gutter.
- Standard equipped with lifting device suitable for empty transport of the unit
- Standard equipped with ground connection point.

Floor:

- Floor frame made of steel profiles, OSB-3 board and a top layer of non-slip tear sheet.
- Floor frame preservation: SA2.5 shot blasted and v. 100 µm Acraton® zinc phosphate epoxy coating in color RAL 7005/mouse gray.

Door(s) BSG-FS1 & 2:

- Front fitted with single or double self-closing wing door with handle placed at ergonomic height

and cylinder lock with 2 keys.

- Door rebate equipped with foaming strips that hermetically seal the door rebate in case of fire.

Fixture:

- Galvanized racking, hook-in system over the full width and depth of the Big Saver®
- Shelf .equipped with four (4) removable, galvanized and double RAL 7035 PE coated grid shelves, mesh 35 x 35 mm.
- Leg shelves load up to 75 kg or 110 kg with evenly distributed load.

Thermal Door Locking:

- The door(s) equipped with a thermal lock that locks the door(s) on the inside at a temperature of ± 70 ° C.[function: locking the cabinet until the professional fire department can act]

Loading device:

- Lockable, steel, RAL 7035 powder coated E-distribution cabinet, W x D x H = 400 x 150 x 500 mm on the right side wall of the F90 cabinet, with:
- Fuse circuit breaker for control components and fan,
- Fuse circuit breakers for the wall sockets
- Wall sockets for chargers with LED on/off switch[mounted on the back inner wall of the cabinet]
- Door contact switch(s) [function: activates local alarm when door is left open too long and checks complete closure of door(s) before releasing extinguishing action]
- Fire detector [function: activates local audible and visual alarm when fire is detected]
- Siren and flashing RED [local alarm when door is open too long and in case of fire]
- Siemens Logo (PLC) [controls electrical configuration, activates extinguisher on fire detection and has a potential-free output contact for alarm transmission to a monitoring station]
- Ventilator SVBS-100 [function: heat dissipation from the cabinet due to loading activities]
- Connection cord fan with plug-in socket at the top of the E-cabinet.
- Connecting cable, length 3 m¹ with grounded plug (230 V) or CE plug (400 V) for power supply of the cabinet. [the construction mutual power supply must be on a grounded outlet behind a residual current device]

F90 Ventilation openings:

- In the side wall equipped with a fire-resistant ventilation grille (for the purpose of the fan).
- Breathing grille equipped with F60 (or F90) fire damper that closes automatically in case of fire.

F90 Emergency pressure hatch with cover:

- Emergency pressure vent in the cupboard roof fitted with an F60 (or F90) fire resistant grille that closes automatically in the event of a fire.
- Emergency hatch covered with a cover cap with a Ø 125 mm flange for connection to an outside air vent.

Lithium-Ion Filter Mat:

- The emergency pressure hatch and vents are equipped with special filter mat to keep the extinguishing dust inside the cabinet and prevent emission of burning lithium-ion particles from the cabinet.

Dry Aerosol Extinguisher cartridge:

- Cabinet standard equipped with stainless steel Firepro® dry aerosol extinguisher cartridge with stainless steel suspension bracket.

- Content per cartridge matched to the cabinet size according to KIWA BRL: K-23003/01
- Automatic and fast activation of the extinguishing action based on fire detection.
- The applied extinguishing system is KIWA certified for extinguishing Li-Ion battery fires.
- Blue cartridge with service life of about 15 years (no annual checks required).
- The dry aerosol extinguishing agent can significantly reduce consequential damage in a battery fire and is not harmful to humans and the environment.

Danger designation:

- Danger signage by means of type sticker with pictograms, symbol: "smoking and open fire prohibited" and "flammable substances" and "ADR 9/batteries"
- Warning sign (white/red) indicating that the cabinet is guarded by a Firepro® dry aerosol extinguishing system and contact number for invoking salvage.

OPTIONAL:

Legboard:

- Extra galvanized and double PE RAL 7035 coated grid shelf including 4 shelf supports.

HF-Filter cassette:

- Filter cassette for the purpose of filtering out hydrogen fluoride fumes during a battery fire in the cabinet. This cassette can be applied if no exhaust line can be connected.

24VDC Door closers:

- Electrically controlled door closer(s) (instead of standard mechanical door closers), which allow doors to open in any position (up to about 100°), but close automatically upon fire detection.

SMS Module:

- Addition in the E-cabinet with an SMS module, with which - via a fixed telephone subscription to be taken out by the user - an alarm message is sent in case of fire detection to two pre-programmed telephone numbers.

Email-Alarm module/Datalogger/App:

- This email module works "standalone" and is activated on the (adjustable) inside temperatures (readable from - 40 to + 125 ° C) of the cabinet and sends an email alarm message to several (self-selectable) recipients when the set temperature flow rate is exceeded.
- Also data logger and via the app remotely readable at all times.

Optional

Option description	Option article number
HF Filter cassette in the emergency hatch	060600109
SMS module in the E-cabinet	100600107
Email module, data logger, temperature controlled	100600108
BS-FS2-LION A3 in standard RAL color	210110210
Extra grid board for BS-FS2-Lion A3	200600102
24 V DC controlled door closer for BS-FS2-LION A3	200600106