

LITHIUM BATTERIES

SAFE STORAGE AND CHARGING



- >>> 7 models in 4 sizes: Solutions for every application
- **All-round protection:** ION-LINE safety storage cabinets for your safety

Lithium-ion batteries

LITHIUM-ION BATTERIES –

HOW PROFESSIONALS AND INSURERS RECOMMEND HANDLING BATTERIES

Ever more fequently, private individuals, tradespeople, and companies are using lithium-ion batteries classified as being in the moderate performance class according to VdS 3103. It is important to keep safety in mind when doing so. If you do not store and/or charge these batteries properly, they can pose hazards and safety risks.

Insurers, associations, and professionals have drawn attention to this issue.

Property insurers recommend using available protective equipment (such as type 90 safety storage cabinets) to minimise risks and avoid damage.

Property insurers recommend the use of safety storage cabinets for the following reasons:

"If lithium ion batteries are required at production facilities, then measures and safety precautions such as (...) storing them in fire-resistant cabinets should be considered".

IMK Ber. No. 192 Dipl.-Ing. Jürgen Kunkelmann Section 2.2, last updated 10/2017

"Lithium batteries should generally be treated as a hazardous material."

Publication VdS 3103 : 2019-06 (03) General Association of the German Insurance Industry published by VdS Schadenverhütung GmbH

"Areas with medium power batteries should be spatially (at least 5 m) or structurally separated from other areas with fire-resistant structures."

Publication VdS 3103 : 2019-06 (03) General Association of the German Insurance Industry published by VdS Schadenverhütung GmbH

"Fire-resistant safety storage cabinets (type 90) with smoke detector monitoring offer particular protection, as batteries can be both stored and charged there in a protected manner."

Provinzial Flyer – E-Bikes handling lithium safely, last updated 06/2020

"Past damage we have seen has shown that damaged or defective batteries, in particular, can cause a fire. We have also seen fires caused by lithium-ion batteries in bicycle stores".

Provinzial - Handling lithium-ion batteries safely in bicycle sales, www.provinzial.de last updated May 2020

"Larger quantities, or more powerful LIB must be stored at a safe distance from flammable materials. If they are stored inside buildings, then a clearance of 2.5m from other goods must be maintained, or the LIB must be stored in a separate area secured by fire protection technology (like a safety storage cabinet or container)!"

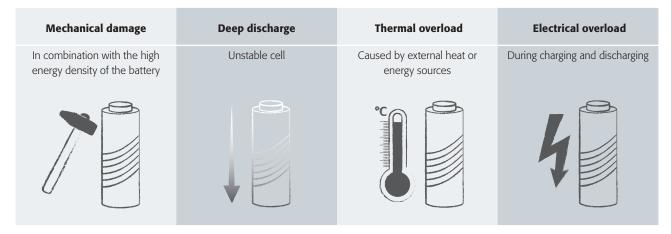
LIB= Lithium-ion batteries DGUV Information 205-041 Fire protection when handling lithium-ion batteries Last updated 02/2024



Lithium-ion batteries

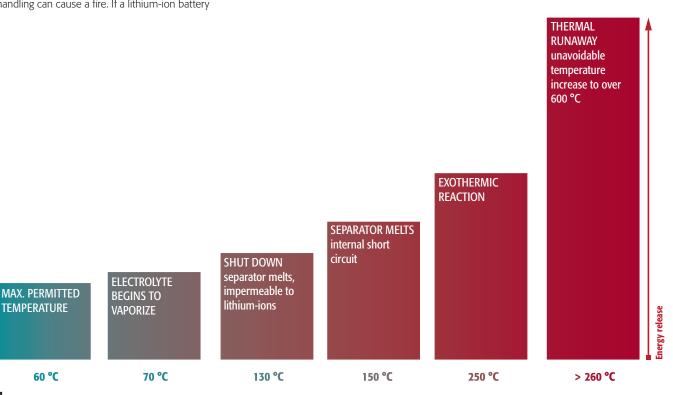
IMPROVED SAFETY THROUGH FIRE PROTECTION – CHARGING AND STORING BATTERIES CORRECTLY

Lithium-ion batteries can cause a fire. Causes include:



Always store and charge lithium-ion batteries in a safety storage cabinet. Handle batteries properly and appropriately to reduce hazards such as the risk of fire. Lithium-ion batteries offer many advantages. They are long-lasting, offer high energy density, have a low level of self-discharge, and can be used in a wide range of different applications. Using lithium-ion batteries is safe. However, according to the VDE they are safe only when handled properly. Technical defects or improper handling can cause a fire. If a lithium-ion battery

discharges its energy in an uncontrolled manner, the heat released may exceed the melting point of the lithium. This will result in a chain reaction. Professionals call this "thermal runaway". The battery can explode as it burns. Because of this, it is important to understand and comply with the safety regulations for moderate performance batteries. It is best to store and charge lithium-ion batteries in an asecos safety storage cabinet.



SAFETY REGULATIONS FOR MEDIUM POWER CLASS BATTERIES

(Based on VdS 3103, Provincial flyer 06/2020)



SAFETY REGULATIONS

- ▶ Comply with the manufacturer's specifications, and follow the information provided on technical product sheets.
- ▶ Protect the poles of the batteries from short circuiting.
- ▶ Protect the batteries from mechanical damage.
- ▶ Do not expose the batteries directly or continuously to high temperatures or heat sources, such as direct sunlight
- ▶ Store the batteries in a location structurally or spatially separate from other flammable materials if there is no automatic extinguishing system available: minimum distance 2.5 m
- Remove damaged or defective batteries from your warehouse and production areas immediately; store them temporarily until their disposal at a safe distance away, or in an area separated using fire protection technology.
- ▶ Only store batteries that have a testing certificate in accordance with UN 38.3; store prototypes only in exceptional cases and with a risk assessment.
- Only store batteries in separate, fire-resistant areas or at a safe distance of 5 m
- Do not store batteries with other products that can act as accelerants to a fire

- ► Monitor the storage areas where your batteries are located using suitable sensors with connection to a permanently staffed alarm receiving office
- With fire extinguishing systems, observe the information in the product data sheets for the batteries on suitable extinguishing agents.



Conclusion

Store and charge lithium-ion batteries in a safety storage cabinet!

ION-LINE —

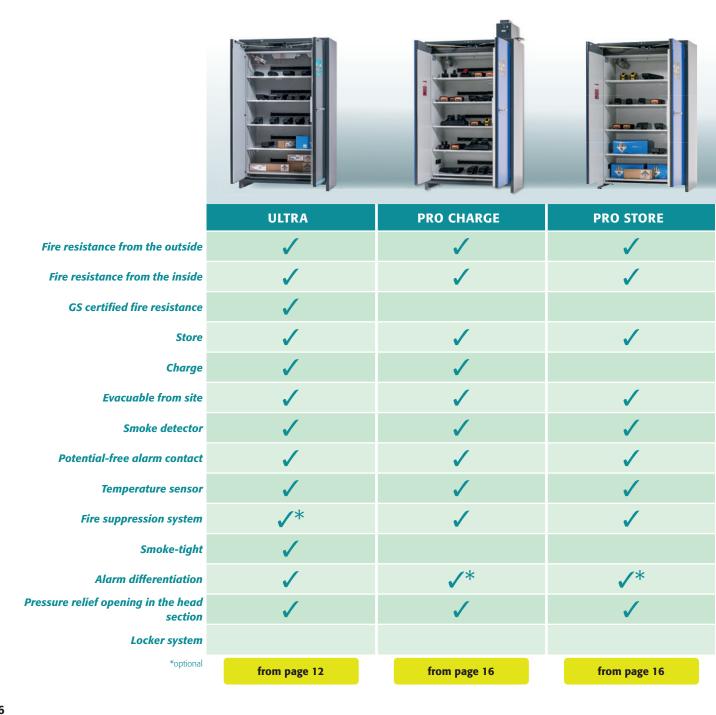
CORE, PRO AND ULTRA -**CUSTOMISED AND SAFE**

The asecos ION-LINE offers three different safety levels for secure active and passive storage of lithium ion batteries.

CORE: Comprehensive fire protection with the proven asecos evacuation and alarm forwarding concept.

PRO: Expanded protection when handling lithium-ion batteries with improved monitoring.

ULTRA: Improved fire protection, active smoke gas management, and expanded monitoring are useful even in sensitive areas with the highest safety requirements.

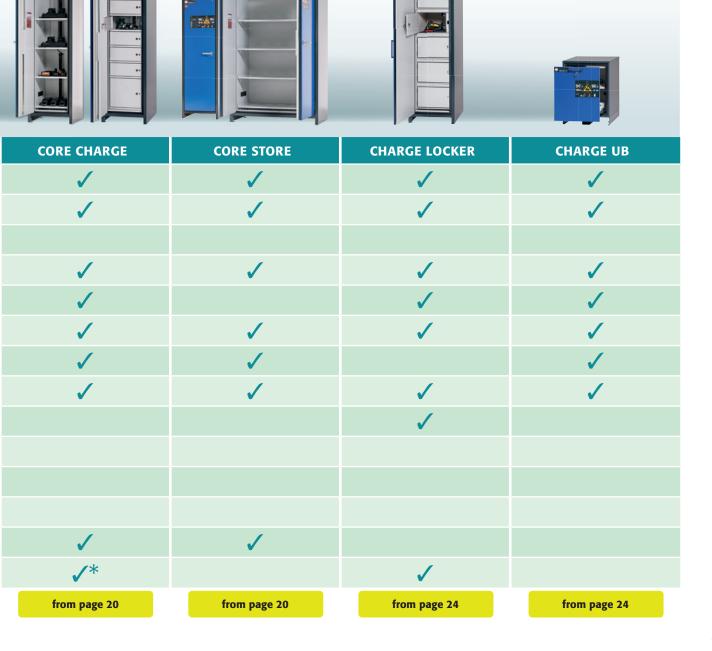


No matter what safety level you choose, all cabinets offer these key safety features:

- Fire protection, inside-out and outside-in
- Smoke detection
- Alarm forwarding

In addition, for the CORE and PRO models, you have these options:

If you only want to **store** batteries in the cabinet, choose the **STORE version**. If you intend to **charge (active storage)** batteries directly in the cabinet, then choose the **CHARGE version**.



OUR asecos ION-LINE SAFETY CONCEPT

ION-LINE safety storage cabinets offer you the safety you need for storing and charging lithium-ion batteries. The CORE, PRO and ULTRA models immediately detect any fires that occur in the cabinet. This allows employees to evacuate the building quickly if an alarm sounds. Connecting the cabinet to a continuously staffed building control system allows first responders:

- to receive an alarm and be on site quickly.
- to immediately take further measures, for instance evacuating the building, to minimise subsequent damage caused by smoke or extinguishing water.

ION-LINE cabinets are equipped with a transport base and quick-release power supply for safe evacuation. When the cabinet is removed from the setup location, this plug connection disconnects independently.

	Warning MESSAGE 1	ALARM LEVEL 1	ALARM LEVEL 2
INCIDENTS	 Interior temperature >50 °C Possible causes: Temperature build-up due to battery charging processes Ventilation system failure 	Smoke detector detects incipient smoke development Possible reasons: Smoke detection without simultaneous temperature rise	 Alarm level 1 has been triggered Interior temperature >70 °C Possible reasons: Fire development
ı,		 Acoustic signalling with medium tone interval The potential-free switching contact forwards 	
ACTIONS CORE	The warning light (red LED) is activated and lights up permanently, the function indicator (green LED) goes out. Alarm triggers with slow sound interval. The socket strips switch off. The potential-free alarm contact forwards an alarm.	The warning light (red LED) is activated and lights up permanently, the function indicator (green LED) goes out. Alarm triggers with medium sound interval. The potential-free alarm contact forwards an alarm. In the PRO CHARGE model. Switching off the technical ventilation and power.	The warning light (red LED) switches from steady light to flashing light The alarm switches to a fast sound interval The fire suppression system trips In the PRO CHARGE model Switching off the technical ventilation and power strips
SYSTEM REACTIONS ULTRA PRO	 Function indicator changes from green to flashing yellow Alarm triggers with slow sound interval The fan increases its speed for a short time The socket strips switch off The potential-free alarm contact forwards an alarm 	The function indicator flashes red Alarm triggers with rapid sound interval The ventilation flaps close The fan and the socket strips switch off. The potential-free alarm contact forwards an alarm	The function indicator flashes red Alarm triggers with rapid sound interval The ventilation flaps close The fan and the socket strips switch off The potential-free alarm contact forwards an alarm The optional fire suppression system trips
SUBSEQUENT MEASURES	Immediate inspection caused by qualified inhouse personnel At an internal temperature below 50 °C, return to normal operation, the visual and acoustic signalling is switched off	Immediate inspection caused by qualified personnel (e.g. fire brigade) to initiate further measures if necessary If the smoke detector does not detect any further smoke inside the cabinet, the system can be reset to normal operation caused by briefly disconnecting it from the mains voltage	The overall system can then only be assessed by an authorised asecos service technician and reset to normal operation if possible. At least the fire suppression unit and smoke detector must be exchanged before doing so.

ALARM FORWARDING AS KEY COMPONENT

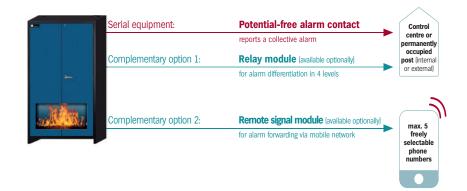
Whenever the cabinet is unattended, especially at night or on weekends, alarm forwarding is indispensable in an emergency. It is the only way to quickly detect the damage and initiate countermeasures.

Manufacturer recommendation & series equipment:

POTENTIAL-FREE SWITCHING CONTACT

All ION-LINE cabinets are equipped at the factory with a potential-free switch contact for forwarding the alarm on site within the building. The most reliable way to transmit the alarm is to connect this contact to a continuously staffed control centre (internal or external). Optional modules can be purchased as an alternative or extension to this system.

Alarm forwarding – These are your options:



Complementary option 1:

RELAY MODULE

By choosing this option, you are opting for alarm differentiation instead of a collective alarm.

The factory-installed module differentiates between four different warning and alarm levels:

- warning message at a temperature above 50 °C inside the cabinet
- alarm level 1
- alarm level 2
- power failure

Via potential-free alarm contacts, these signals are passed on to a central control centre. With the clear differentiation of the alarm conditions, you can initiate optimally coordinated measures.

The relay module is suited for the PRO models of the ION-LINE.

Order No. 38766



Complementary option 2:

MODULE FOR REMOTE SIGNALLING

The module offers an alarm forwarding via the mobile phone network (SMS/call) and is therefore especially suitable for companies and facilities without a central building management system. In an emergency, the immediate alerting of one or several defined persons is triggered.

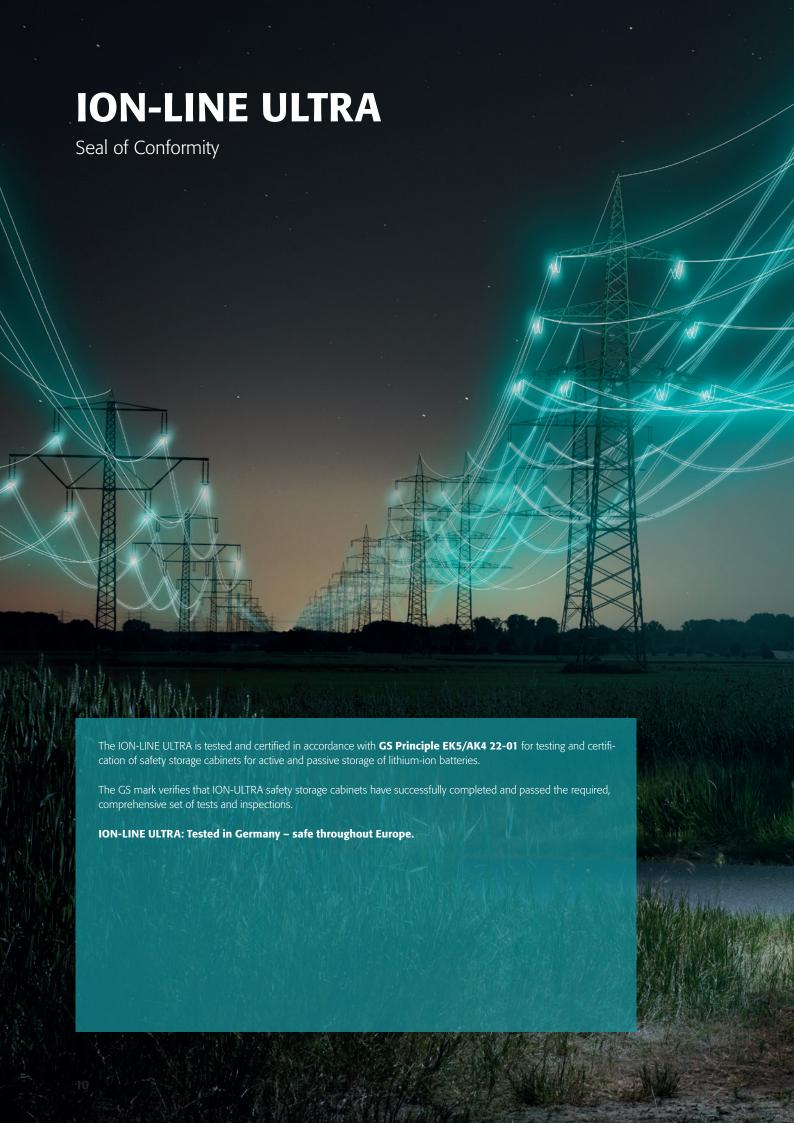
The module is easily installed on-site by the customer via plug (also suitable for retrofitting) and offers the following functions:

- five programmable telephone numbers
- configurable message texts
- collective alarm in case of an emergency or power failure

A SIM card is required for the initial operation of the module, which must be provided by the customer. Alternatively, the included SIM card (for European and UK use only) can be activated via an online portal. A good mobile phone connection is necessary to ensure that the signal can be transmitted.

The remote signalling module is suited for all ION-LINE models.

Order No. EU-Version 38765





ION-LINE | ION-ULTRA-90

Safe and approved passive and active storage of lithium-ion batteries in working areas Premium models for the highest safety requirements – how you can benefit from the advantages of the ION-ULTRA-90:

GS-certified fire resistance in accordance with GS test principle EK5/AK4 22-01. Smoke-tight cabinet construction with pressure relief opening in the head section and self-closing, automatically locking doors.



2

Thanks to an integrated transport base, you can immediately evacuate the cabinet and transport it to a safe location outdoors.



3

An LED indicator and visual/acoustic alarms quickly inform you of fires when they begin, without having to open the doors of the cabinet.



Optionally equipped with fire suppression system, which automatically triggers in the event of a fire.



Smoke detectors and two temperature sensors detect even incipient fires and can transmit alarms to the building control system quickly.



0

The built-in, temperature-controlled ventilation system prevents heat build-up when charging the batteries.



7

If your work area is not staffed, the standard potential-free switching contacts forward differentiated alarms immediately to a connected control centre. Optional remote signalling module available.



Thanks to the adjustable-height shelves with a 75 kg load capacity, you can flexibly adjust the interior of the cabinet.



0

Bottom collecting sump is used to catch any leakage which may occur from burning batteries.





• Fire resistance of 90 minutes (type 90), type-tested in accordance with EN 14470-1



• Fire resistance of 90 minutes from inside to outside in accordance with EN 1363-1



• **GS-tested** (document EK5/AK4 09-10, ProdSG)



CE compliant



• Extended **manufacturer warranty of up to 10 years** in combination with an asecos service tariff



ION-LINE | ION-ULTRA-90





Model IO90.195.120.065.WDAC

Order No. 40559-047-41105

Image shows optional accessories



Model IO90.195.120.065.WDAC

Order No. 40559-047-41112

Image shows optional accessories



Model IO90.195.120.065.WDAC

Order No. 40559-047-40888

Image shows optional accessories

Technical data		UK version	EU version
External dimensions W x D x H Internal dimensions W x D x H Weight without interior equipment Maximum load Entry width transport base Entry height transport base	mm mm kg kg mm mm	1193 x 650 x 1953 1050 x 565 x 1643 550 600 1120 90	1193 x 650 x 1953 1050 x 565 x 1643 550 600 1120 90
Total power rating of the power socket strips			
Fuse (1-phase)	Α	13	16
Power max. (1-phase)	kW	2,99	3,68
Fuse (3-phase)	Α	3 x 13	3 x 16
Power max. (3-phase)	kW	8,97	11,04
Number of socket outlets per strip	piece	8	8

Main features



Safe storage and charging of batteries



Integrated warning system incl. LED display



Optional: fire suppression unit



EASY HANDLING WITH COMFORT

Doors stop for safe and convenient operation and close automatically after 10 seconds.



Model	Body colour	Door colour	Order No.
IO90.195.120.065.WDAC	anthracite grey RAL 7016	gentian blue RAL 5010	40559-047
		anthracite grey RAI 7016	40559-053

Interior equipment packages (can only be ordered in combination with the ca	binet) Material	Order No.
		UK version EU version
3x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	40888 40878
4x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	41105 41102
5x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	41109 41106
6x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2,85L)	powder-coated sheet steel	41112 40921

Accessories		Order No.
		UK version EU version
Power supply cable 400 V (can only be ordered in combination with the cabinet)	3-phase, for further properties see technical data table	38038 38038
Fire suppression unit with hoop guard		40941 40941



ION-LINE | ION-PRO-90

Safe and approved passive and active storage of lithium-ion batteries in working areas Cabinet models for expanded safety requirements – how you benefit from the advantages of the ION-LINE PRO:

An LED indicator and visual/acoustic alarms quickly inform you of fires when they begin, without having to open the doors of the cabinet.



2

The fire suppression system triggers automatically if there is a fire in the cabinet.



33

Smoke detectors and a temperature sensor detect even incipient fires and can transmit alarms to the building control system quickly.



If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. With optional relay or remote signalling module.



5

The ventilation attachment prevents heat build-up when charging the batteries.



0

Convenient cabinet entry – open both doors at the same time with just one hand.



7

Your battery charging process is safe — thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



0

The automatic 2-point locking mechanism permanently and securely closes the cabinet doors.



0

Thanks to an integrated transport base, you can immediately evacuate the cabinet and transport it to a safe location outdoors.





• Fire resistance of 90 minutes (type 90), type-tested in accordance with EN 14470-1



• Fire resistance of 90 minutes from inside to outside in accordance with EN 1363-1



· CE compliant



 Extended manufacturer warranty of up to 10 years in combination with an asecos service tariff



ION-LINE | ION-PRO-90





Model IO90.195.120.PC.WDC

Order No. 41269-047-41401



Model IO90.195.120.PC.WDC

Order No. 41269-047-41400

Technical data		EU version	UK version
External dimensions W x D x H Internal dimensions W x D x H Weight without interior equipment Maximum load Entry width transport base Entry height transport base	mm mm kg kg mm mm	1193 x 615 x 2224 1050 x 522 x 1647 424 600 1120 90	1193 x 615 x 2224 1050 x 522 x 1647 424 600 1120 90
Total power rating of the power socket strips	•		
Fuse (1-phase)	А	16	13
Power max. (1-phase)	kW	3,68	2,99
Fuse (3-phase)	Α	3 x 16	3 x 13
Power max. (3-phase)	kW	11,04	8,97
Number of socket outlets per strip	piece	8	8

Main features



Safe storage and charging of batteries



Warning and fire suppression system



Extraction unit and LED display included

PRO-Model incl. fire suppression unit and LED display for a quick indication of emergencies.



Model	Body colour	Door colour	Order No.
IO90 195 120 PC WDC	anthracite grev RAL 7016	gentian blue RAI 5010	41269-047

Interior equipment packages (can only be ordered in combination with the cab	inet) Material	Order No.
		EU version UK version
3x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel	41391 41399
4x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel	41392 41400
5x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel	41393 41401
6x perforated shelf incl. outlet strips 1x bottom collecting sump (V=261)	nowder-coated sheet steel	41394 41402

Accessories		Order No.
		EU version UK version
Power supply cable 400 V (can only be ordered in combination with the cabinet)	3-phase, for further properties see technical data table	38038 38038
Module for remote signalling	alarm transmission to a mobile of your choice	38765 39221
Relay module	potential-free forwarding of 4 different alarm states	38766 38766

Service	Order No.
Service (UK only)	SER90018







Order No. 41429-047-41388



Model IO90.195.120.PS.WDC

Order No. 41429-047-41389

IO90.195.120.PS.WDC

Technical data

1193 x 615 x 1953 External dimensions W x D x H Internal dimensions W x D x H 1050 x 522 x 1647 mm Weight without interior equipment 424 kg Maximum load kg 600 Entry width transport base Entry height transport base mm 1120 90

mm

Main features



Store batteries safely



Warning and fire suppression system



LED display included

EXPERT TIP

obvious damage should generally not be stored inside buildings:

Dispose of them promptly in appropriate disposal containers suitable for transportation, outside of buildings.

Improper or irregular inspection of safety-related equipment, not only risks the loss of insurance cover but also threatens your **personal liability** - you can be held personally responsible for damage or injury.

Increase the service life and improve the operational safety of your ION-LINE cabinets with the asecos original service.

ONE-HAND OPERATION

Are you looking for a comfortable storage solution for your Lithium-ion Batteries?

Operate two doors with one hand!



Model	Body colour	Door colour	Order No.
IO90.195.120.PS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41429-047

Interior equipment packages (can only be ordered in combination w	ith the cabinet) Material	Order No.
		EU version UK version
3x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41386 41386
4x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41387 41387
5x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41388 41388
6x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41389 41389

Accessories		Order No.
		EU version UK version
Module for remote signalling	alarm transmission to a mobile of your choice	38765 39221
Relay module	potential-free forwarding of 4 different alarm states	38766

Service	Order No.
Service (UK only)	SER90017

ION-LINE | ION-CORE-90

Safe and approved passive and active storage of lithium-ion batteries in working areas Cabinet models for comprehensive safety requirements – how you can benefit from the advantages of the ION-CORE-90:

Storing lithium-ion batteries safely in cabinets with 90 minutes fire resistance.



2

Convenient cabinet entry – open both doors at the same time with just one hand.



5

Smoke detectors detect even incipient fires and can transmit alarms to the building control system quickly.



If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. Optional remote signalling module available.



5

Your battery charging process is safe — thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



0

Thanks to an integrated transport base, you can immediately evacuate the cabinet and transport it to a safe location outdoors.



7

The automatic 2-point locking mechanism permanently and securely closes the cabinet doors.





• Fire resistance of 90 minutes (type 90), type-tested in accordance with EN 14470-1



• Fire resistance of 90 minutes from inside to outside in accordance with EN 1363-1



• CE compliant



 Extended manufacturer warranty of up to 10 years in combination with an asecos service tariff



ION-LINE | ION-CORE-90





Model 1090.195.060.CC.WDC Order No. 41302-047-41370



Model 1090.195.060.CC.WDC Order No. 41302-047-41375

Technical data		IO90.195.060.CC.WDC
External dimensions W x D x H Internal dimensions W x D x H Weight without interior equipment Maximum load Entry width transport base Entry height transport base	mm mm kg kg mm mm	599 x 615 x 1953 450 x 522 x 1647 265 600 526 90
Total power rating of the power socket strips Fuse (1-phase) Power max. (1-phase) Fuse (2-phase) Power max. (2-phase) Number of socket outlets per strip	A kW A kW piece	13 2,99 2 x 13 5,98 8 *

^{*} EU 41366/UK 41370: A minimum of 3 power sockets available per shelf. EU 41373/UK 41375: Each locker has access to a minimum of 1 power socket.

Main features



Safe storage and charging of batteries



Integrated smoke detector for fire detection



Accessible transport base

EXPERT TIP

Lithium-ion batteries with obvious damage should generally not be stored inside buildings:



Dispose of them promptly in appropriate disposal containers suitable for transportation, outside of buildings.

Model	Body colour	Door colour	Order No.
IO90.195.060.CC.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41302-047

Interior equipment packages (can only be ordered in combination with the cabinet) Material	Order No.
	EU version UK version
7x metal locker with perforated shelf incl. outlet strips, 1x bottom collecting sump (V=1.0L) powder-coated sheet steel	41373 41375
4x perforated shelf incl. outlet strips, 1x bottom collecting sump (V=1.0L) powder-coated sheet steel	41366 41370

Accessories		Order No.
		EU version UK version
Power supply cable 400 V (can only be ordered in combination with the cabinet)	3-phase, for further properties see technical data table	38038 38038
Module for remote signalling	alarm transmission to a mobile of your choice	38765 39221

Service	Order No.
Service (UK only)	SER90019





Model IO90.195.120.CS.WDC

Order No. 41426-047-41387



Model IO90.195.120.CS.WDC

Order No. 41426-047-41389



Model IO90.195.060.CS.WDC

Order No. 41419-047-41363

Technical data IO90.195.120.CS.WDC IO90.195.060.CS.WDC

External dimensions W x D x H 1193 x 615 x 1953 599 x 615 x 1953 Internal dimensions W x D x H mm 1050 x 522 x 1647 450 x 522 x 1647 Weight without interior equip. 424 265 kg Maximum load kg 600 600 Entry width transport base Entry height transport base 1120 526 mm 90 90 mm

Main features



Store batteries safely



Integrated smoke detector for fire detection



Accessible transport base

Model	Body colour	Door colour	Order No.
IO90.195.120.CS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41426-047
IO90.195.060.CS.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	41419-047

Interior equipment packages (can only be ordered in combination w	ith the cabinet) Material	Order No.
1090.195.120.CS.WDC		EU version UK version
3x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41386 41386
4x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41387 41387
5x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41388 41388
6x perforated shelf, 1x bottom collecting sump (V=2.6L)	powder-coated sheet steel RAL 7035	41389 41389
IO90.195.060.CS.WDC		EU version UK version
3x perforated shelf 1x bottom collecting sump (V=1.01)	nowder-coated sheet steel RAL 7035	41362 41362

3x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41362 41362
4x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41363 41363
5x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41364 41364
6x perforated shelf, 1x bottom collecting sump (V=1.0L)	powder-coated sheet steel RAL 7035	41365 41365

Accessories	For cabinet width	Order No.
		EU version UK version
Perforated shelf	1200	41293
Perforated shelf	600	41313
Module for remote signalling	alarm transmission to a mobile of your choice	38765 39221

Service	Order No.
Service (UK only)	SER90016

ION-LINE | ION-CHARGE-90

Safe and approved passive and active storage of lithium-ion batteries in working areas Cabinet models for customer-specific safety requirements – how you can benefit from the advantages of the ION-CHARGE-90:

Your battery charging process is safe – thanks to high-quality protective contact outlets in the fire safe interior of the cabinet.



Smoke detectors detect even incipient fires and can transmit alarms to the building control system quickly.



If your work area is not staffed, the standard potential-free switching contact forwards alarms immediately to a connected control centre. Optional remote signalling module available.



4

The under bench cabinet can be flexibly integrated under worktops due to a height of 78 cm.



5

Fire-safe locked compartments reduce the spread of fires inside the cabinet. You can remove the locked compartments individually in case of a fire.



0

Protect yourself from unauthorised access and theft with the lockable drawer.



7

The temperature sensor detects fires in each locked compartment. This allows alarms to be indicated and forwarded immediately via LED and acoustic/visual alarms.



0

The integrated transport base and optional rollers allow for easy transport and immediate evacuation to a safe location outdoors in case of damage.





• Fire resistance of 90 minutes (type 90), type-tested in accordance with EN 14470-1



• Fire resistance of 90 minutes from inside to outside in accordance with EN 1363-1



• CE compliant



- Excellent products with special manufacturer warranty
- Extended manufacturer warranty of up to 10 years in combination with an asecos service tariff



ION-LINE | ION-CHARGE-90



Model IO90.078.059.057.U9.S

Order No. 39354-247-39489

Picture shows castors optional



Model IO90.078.059.057.U9.S

Order No. 39354-247-39489

Technical data		EU version	UK version
External dimensions W x D x H Internal dimensions W x D x H Weight without interior equip. Maximum load Entry width transport base Entry height transport base	mm	593 x 574 x 780	593 x 574 x 780
	mm	470 x 452 x 582	470 x 452 x 582
	kg	130	130
	kg	300	300
	mm	548	548
	mm	95	95
Total power rating of the power socket strips Fuse Power max. Number of socket outlets per strip	A	16	13
	kW	3,68	2,99
	piece	4 *	4 *

Technical data		EU version	UK version
External dimensions W x D x H	mm	593 x 574 x 780	593 x 574 x 780
Internal dimensions W x D x H	mm	470 x 452 x 582	470 x 452 x 582
Weight without interior equip.	kg	130	130
Maximum load	kg	300	300
Entry width transport base	mm	548	548
Entry height transport base	mm	95	95
Total power rating of the power socket strips Fuse Power max. Number of socket outlets per strip	A	16	13
	kW	3,68	2,99
	piece	4 *	4 *

^{* 4} power sockets available per drawer.





Safe storage and charging of batteries



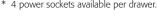
Perfect for installation under work surfaces



Optionally available with castor set for the transport base

39374 39374

38765 39221





MOBILE

Optionally available castors with integrated locking mechanism, easy moving of the cabinet

Model	Bouy Coloui	Door colour	Oruer No.
IO90.078.059.057.U9.S	anthracite grey RAL 7016	gentian blue RAL 5010	39354-247
Interior equipment packages (ca	n only be ordered in combination with the cabinet) Material	Order No.
			EU version UK version
1x drawer (load capacity = 50 kg) ir = 25 kg) incl. socket strip	ncl. socket strip, 1x second level drawer (load capacity	powder-coated sheet steel	39368 39489
Accessories			Order No.
			EU version UK version
man and the state of the state		the state of the state of the state of	

Service	Order No.
Service (UK only)	SER90019

can only be ordered in combination with cabinet

alarm transmission to a mobile of your choice

Castor set for plinth

Module for remote signalling



Model IO90.195.060.L8.WDC

Order No. 39409-047

Technical data		EU version	UK version
External dimensions W x D x H Internal dimensions W x D x H Weight without interior equip. Maximum load Entry width transport base Entry height transport base	mm	599 x 615 x 1953	599 x 615 x 1953
	mm	450 x 522 x 1647	450 x 522 x 1647
	kg	265	265
	kg	600	600
	mm	526	526
	mm	90	90
Total power rating of the power socket strips Fuse Power max. Number of socket outlets per strip	A	16	13
	kW	3,68	2,99
	piece	2 *	2 *

<u> </u>	Safe storage and charging of batteries
01	Fire-protected lockers
	Temperature sensor for fire detection

FIRE RESISTANT LOCKERS

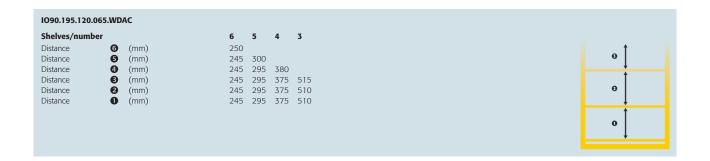
prevent the spread of fire throughout the entire interior of the cabinet by removing them individually and protect stored batteries from flame spread.



Model	Body colour	Door colour	Order No.
IO90.195.060.L8.WDC	anthracite grey RAL 7016	gentian blue RAL 5010	39409-047
Interior equipment packages (c	an only be ordered in combination with the cabin	noti Matorial	Order No.
interior equipment packages (c	an only be ordered in combination with the cabi	icij material	EU version UK version
5x fire-protected lockers incl. outle 6x, 6x	et strips, 1x bottom collecting sump (V=2.0L), 1x , 1x ,	powder-coated sheet steel	39413 41119
Accessories			Order No.
			EU version UK version
Module for remote signalling		alarm transmission to a mobile of your choice	38765 39221
Service			Order No.
Service (UK only)			SER90018

^{*} Each locker has access to a minimum of 2 power sockets.

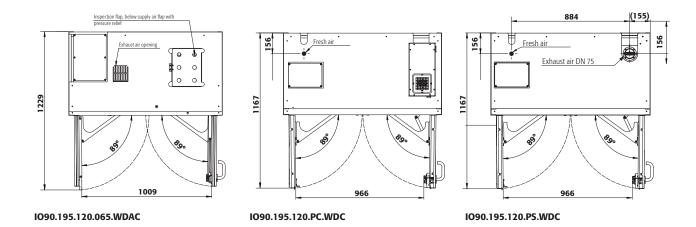
Storage heights

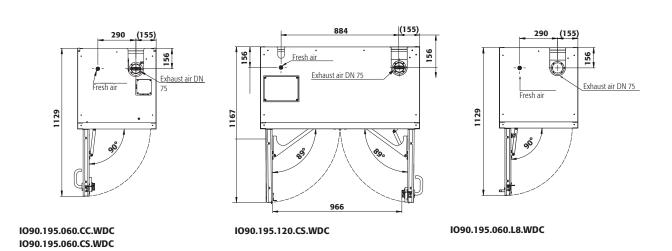


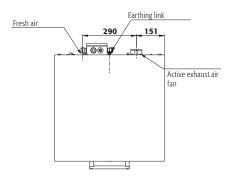
Shelves/num	ber	6 5	4	3
Distance	6 (mm)	240		
Distance	6 (mm)	235 3	05	
Distance	4 (mm)	235 3	00 435	
Distance	3 (mm)	235 3	00 360	500
Distance	2 (mm)	235 3	00 360	520
Distance	1 (mm)	235 3	00 360	520

Shelves/num	ber		6	5	4	3
Distance Distance	6 6	(mm) (mm)	240 235	305		
Distance	ð	(mm)	235	300	435	
Distance	€	(mm)	235	300	360	500
Distance	2	(mm)	235	300	360	520
Distance	0	(mm)	235	300	360	520

Top views -







IO90.078.059.057.U9.S

Service and maintenance

DO NOT **COMPROMISE** WHEN IT COMES TO **SAFETY**

Make yourself secure - safety for employees, work equipment and buildings

Have your safety systems, such as safety cabinets, serviced regularly, properly and in accordance with manufacturer's guidelines from the asecos experts. This will ensure greater safety in your workrooms or workshop. If you do not maintain and service your safety equipment, or do so improperly or inadequately, you may lose your insurance cover as the operator in the event of damage. This is often associated with costs, e.g. caused by a plant shutdown or closure.

Therefore, focus on safety. More security for your staff or employees, your buildings and everything inside them. Our ION-LINE safety storage cabinets are categorised as fire protection and therefore safety systems.

According to "Health and Safety at Work Act 1974 section 2 (d)", these must be properly maintained and checked for functionality at regular intervals by a competent person. We support you in this!

Benefit from our asecos original service to maintain the full functionality of your safety storage cabinets and your insurance cover. Our service technicians are qualified persons as defined by TRBS 1203 and offer you legal security. Contact us now!

Our proposal (for UK only) - tailored to your individual needs:



The regular inspection according to EC-directives 89/391/EEC

Inspection

- Visual inspection including ventilation test
- Error analysis

Legal Certainty Inspectorate

 Control of stored goods, legal marking, checking the documentation, installation conditions

Immediate maintenance

- Measures to delay wear and tear
- Functional test
- Feedback of maintenance work

Immediate repair

- Replacement of parts to a value of £5 are included in the service.
- Immediate repair in 98% of cases for manufactured products

Signed entry in the asecos service booklet / inspection sticker / inspection record





www.asecos.co.uk

TERMS AND CONDITIONS

Dimensions, weights and illustrations

Technical data such as dimensions and weights shown in the catalogue are approximate values. Illustrations may contain special equipment. Products will be delivered without any decoration material.

Price and delivery information

To obtain binding price information and delivery times, please contact your respective dealer/retail partner.

Customs duty / documents dispatch

In case any country-specific extra costs occur for an order (like for example customs confirmation, express shipping of documents, chamber of commerce (IHK) confirmations, etc.), the charges will be passed on accordingly.

Other information

Furthermore we refer to the general terms and conditions of the asecos GmbH on www.asecos.qlobal and the terms and conditions of your specialised dealer.

asecos GmbH

Sicherheit und Umweltschutz Weiherfeldsiedlung 16-18 DE-63584 Gründau

- A +49 6051 92200
- F +49 6051 922010 @ info@asecos.com

Asecos BV

Veiligheid en milieubescherming Christiaan Huijgensweg 4 NL-2408 AJ Alphen a/d Rijn

- F +31 172 506541
- @ info@asecos.nl

asecos SARL

Sécurité et protection de l'environnement 7 rue du Pré Chaudron FR-57070 Metz

- @ info@asecos.fr

asecos S.L.

Seguridad y Protección del Medio Ambiente C/ Calderí, s/n – Ed. CIM Vallés, planta 7, oficinas 75-77 ES-08130 – Santa Perpètua de Mogoda Barcelona

- £ +34 935 745911
- F +34 935 745911 @ info@asecos.es

asecos Ltd.

Safety and Environmental Protection Profile House Stores Road Derby, Derbyshire DE21 4BD

- A +44 1332 415933
- @ info@asecos.co.uk

asecos

Safety and Environmental Protection Inc. c/o Schumann Burghart LLP 1500 Broadway, Suite 1902 NYC 10036, New York, USA

- £ +1 (917) 362 5014
- F +49 6051 922010
- @ info@asecos.com

asecos Schweiz AG

Sicherheit und Umweltschutz Gewerbe Brunnmatt 5 CH-6264 Pfaffnau

- F +41 62 754 04 58
- @ info@asecos.ch

asecos AB

Säkerhet och miljöskydd Skyttelgatan 23 753 42 Uppsala

- @ info@asecos.se