BA22 Li-Ion
Data Sheet



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Introduction



The BA22 Li-Ion battery pack, designed with additional mechanical safety features within its enclosure, is specifically developed for use with PCP 2.0 control boxes. This lightweight battery includes a built-in charger and boasts a 2.85 Ah capacity. It meets the IPX6 Washable standard and ensures high performance. The BA22 also adheres to the new and improved LINAK standard for battery safety.

The BA22 Li-Ion battery is based on Nickel Manganese Cobalt Oxide (NMC) technology, which utilises a composition free of heavy metals.

Further benefits of using the BA22 Li-Ion are:

- Extended lifetime compared to lead acid batteries
- Easy to remove and attach the battery with snap system and LINAK mounting bracket on application or under control box
- The battery provides charging status information to the control box. This makes it possible to receive an indication via the control box to the hand control or in the Service Data Tool/OneConnect™
- New vented design acts as a pressure valve to ensure a safe failure. This means that there must be an air gap of 5 cm on both sides so that the vent is not blocked in case of an emergency

Included in WeAssist™

The BA22 enhances intelligent hospital bed manoeuvrability and is included in the WeAssist system solution, contributing to smarter and more efficient healthcare solutions.

Features and options

Lithium Ion technology:	Nickel Manganese Cobalt Oxide (NMC)
Nominal voltage:	25.2 - 25.7 V DC
Max. discharge current:	10 A up to 25 °C
Charging current:	3 A - controlled by control box
Battery capacity:	2.85 Ah
Weight:	1 kg
Housing colour:	Light grey (RAL 7035)
Protection class:	IPX6 Washable DURA™
Cable:	Exchangeable
Stacking:	Stacking of either 2 batteries or 1 battery and 1 control box possible
Packaging:	Every battery is packed individually and is fitted with lithium caution (transportation requirement)
Classification:	Internally powered

Usage

Compatibility:	PCP 2.0 control boxes
Charging:	Integrated charger in battery
Charging time:	Up to 10 hours
Charging current:	3 A, limited to 300 mA by control box.
Charging temperature:	+5 °C to +40 °C Charging at elevated temperatures can impact the charging time.
Charging state:	Maximum 30% when shipped from LINAK (The battery is shipped from LINAK in deep sleep and will be woken by charging)
Recharging during storage:	No need for charging during storage when the battery is in deep sleep. If the battery is woken up, it is recommended to fully charge the battery and recharge at least every 24 months.
Operating temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +40 °C (+10 °C to +25 °C recommended) The batteries must be stored in an applicable storage room without direct sunlight.
Transportation temperature:	-20 °C to +40 °C
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Height above sea level:	Max. 3000 meters
Warranty:	5 years
Approvals:	IEC60601-1 ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1
Operating conditions:	The battery must be operated within the specified operating conditions and used together with a genuine LINAK charging and system solution. Modifications, repairs or other unauthorised interventions may affect battery performance, safety and service life. Battery condition is determined from battery data readouts, including battery throughput (Ah) and State of Health (SOH).

All BA22 batteries produced in Denmark as of 1 January 2025 will have an extended warranty of 60 months (counting from manufacturing date).

All BA22 batteries produced prior to this date will follow the standard 12 months warranty period for batteries.

LED functionality



The LED functionality matrix below describes the battery behaviour when the control box is connected to mains.

LED	Indication of operation
Solid orange	Charging
No LED light	Fully charged
Flashing orange	Error during charging

Ordering Example

	BA22		
Colour	1	**1** = RAL7035	
IP-Degree	W	**W** = Washable DURA™	
Label	1	**1** = Std. label	**X** = Special label
PCBA	1	**1** = BA22 PCBA	
Battery Type	1	**1** = 2850 mAh	
Enclosure	1	**1** = Std. enclosure (PP)	
Software	1	**1** = Std. BA22 SW	
ID (PCP2.0 address)	1	**1** = Auto-addressing	(replaces all previous ID numbers)

Chosen item number: **BA221W111111**

Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: BA22

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

Listed LINAK item for application approval: BA22*S***S**

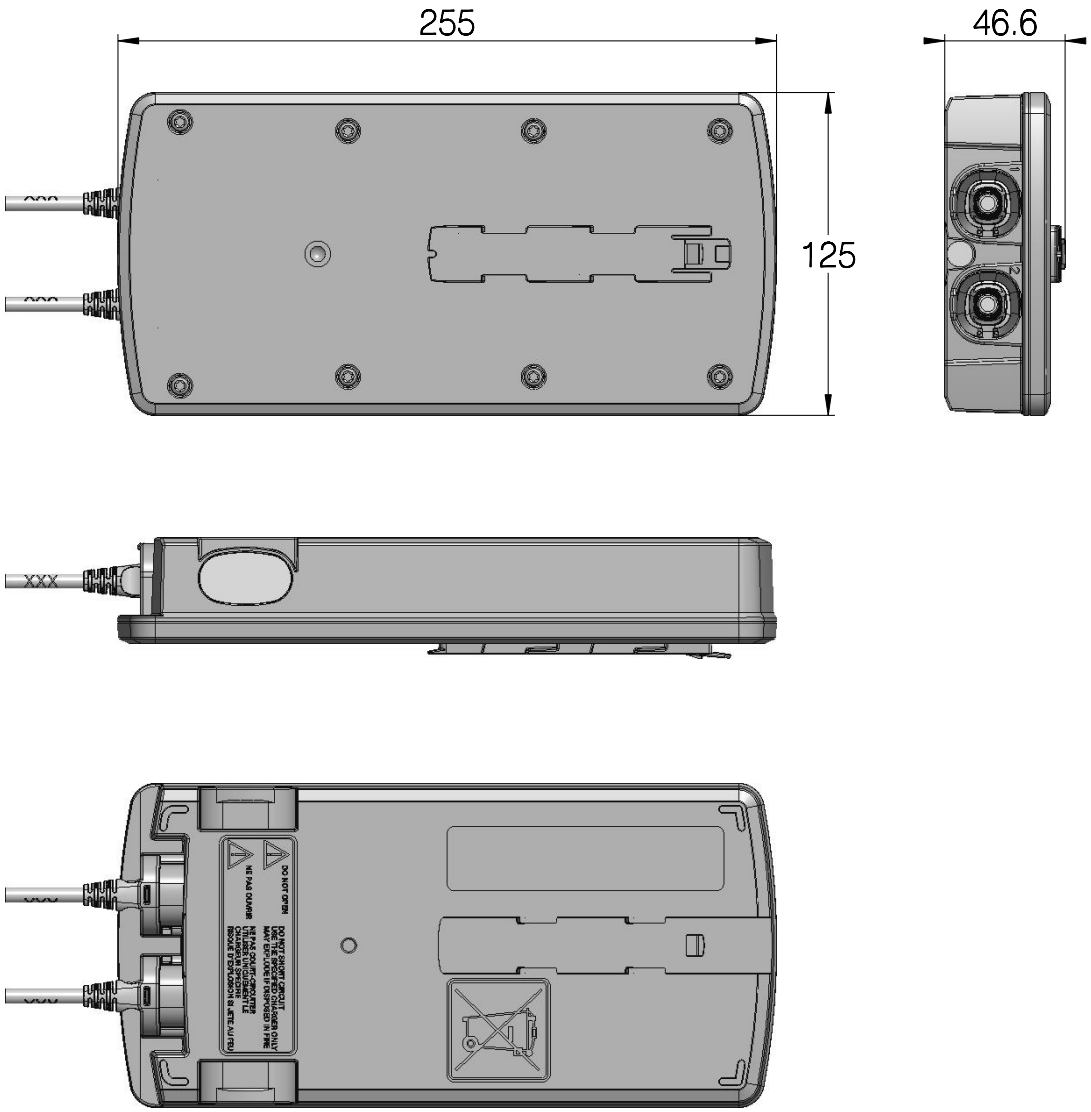
" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com

Dimensions

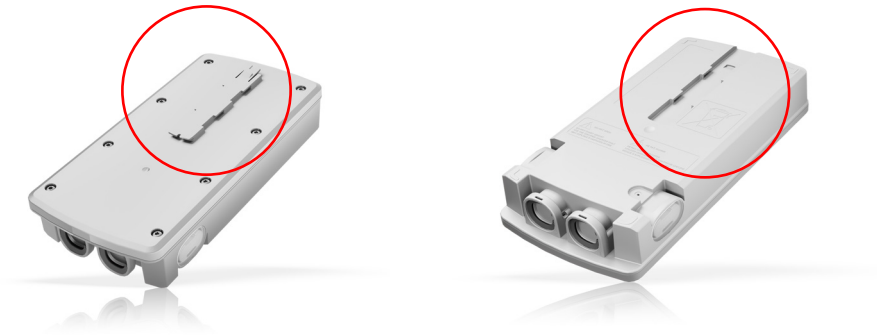
All dimensions are in millimeters (mm).



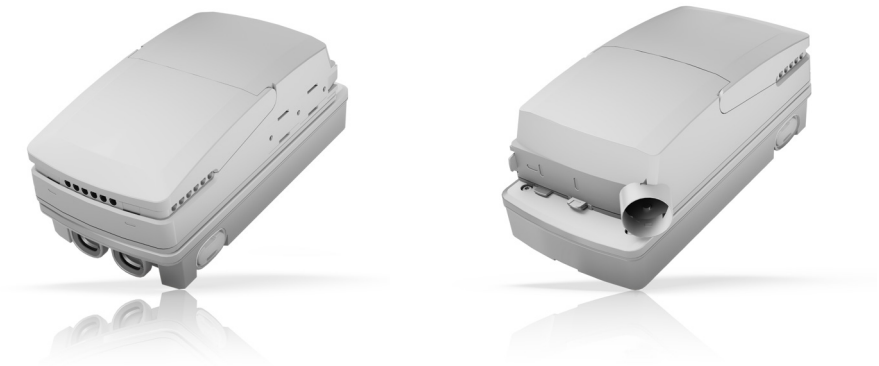
Drawing number: 1072W4000

Mounting

The BA22 battery is equipped with the LINAK mounting clip system, which allows the user to easily mount the control box on top of the battery or mount the battery to the frame of the application, with the mounting bracket seen below.



BA22 mounted with CA/CO control box.

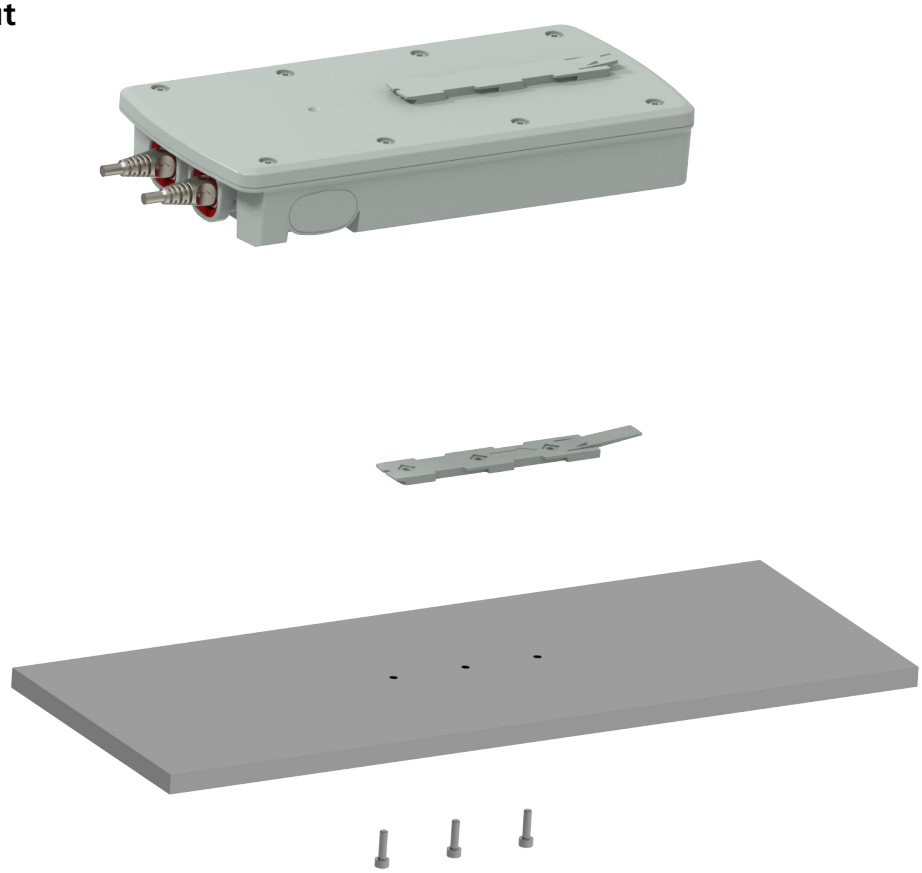


2 x BA22 batteries stacked.

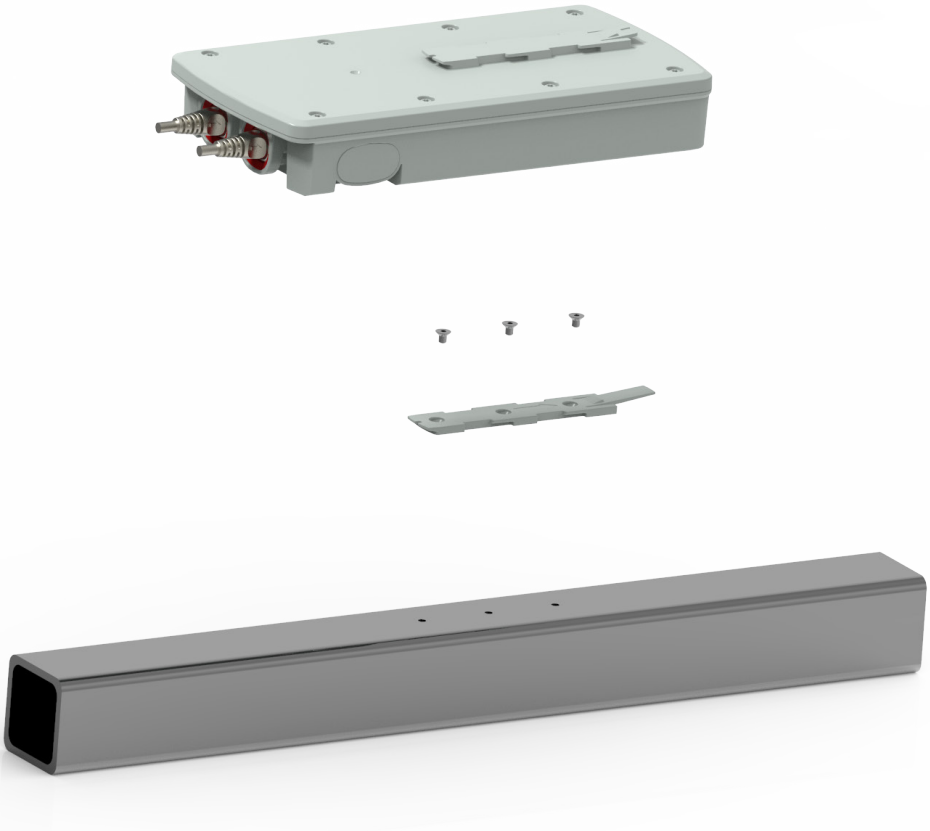


Mounting possibilities

Mounted with nut



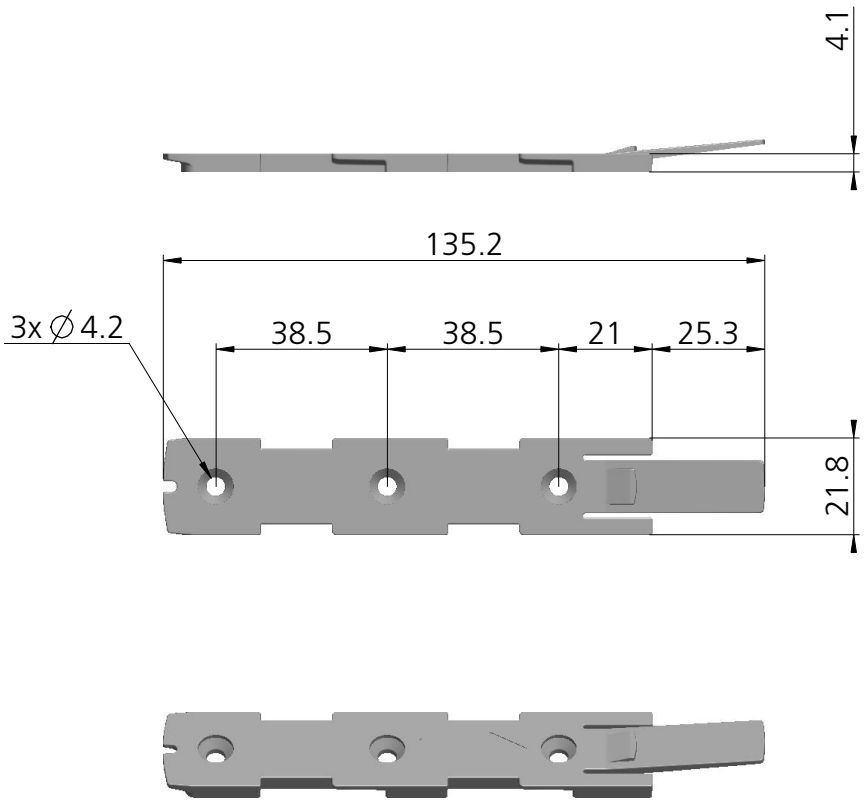
Mounted without nut



Mounting brackets

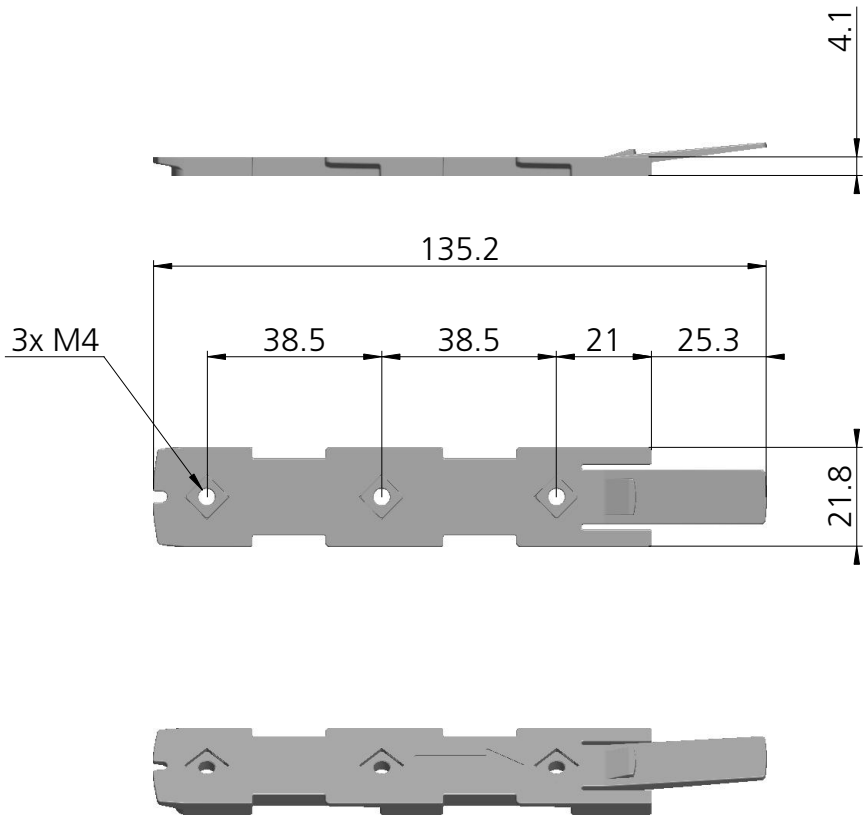
All dimensions are in millimeters (mm).

Long-tail bracket



Drawing No.: 1015W4026

Long-tail bracket with nut



Drawing No.: 1015W4027

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