

Battery BAL50

Data Sheet



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Introduction



The BAL50 Li-Ion battery pack is a part of the LIFT50 product series specially developed for healthcare applications.

LIFT50 is a complete system consisting of the control box COL50, a battery BAL50 and an external charger CHL50 in a flexible solution.

Combined with one or more actuators and a hand control, you have a complete system for modern patient lifts and sit-to-stand lifts.

The BAL50 is a next generation Li-Ion battery technology for high performance and improved return on investment (ROI) due to long lifetime. Packaged in a light, small and ergonomic package for fast and single-handed battery exchange.

The environmental footprint of lithium-ion batteries is low due to less waste as only one battery is to be scrapped instead of previously 4 batteries. This also means that less transportation is necessary because of the lower battery weight which is only half the weight of lead-acid batteries.

Feature highlights

- LINAK Li-Ion battery
- Small and light-weight in an ergonomic package for fast and single-handed battery exchange.
- Readily available emergency stop – brand new concept
- Lithium-ion batteries will give you much faster return on investment (ROI)
- IPX6 Washable
- 5-year warranty
- Choice of colour (white, light grey)

Features and options

Lithium-ion technology:	Nickel Manganese Cobalt Oxide (NMC)
Nominal voltage:	25.2 - 25.7 V DC
Battery capacity (rated):	2.85 Ah
Weight:	Approx. 0.8 kg
Housing colour:	Signal white RAL 9003 or light grey RAL 7035
Protection class:	IPX6 Washable*
Packaging:	Every battery is packed individually and is fitted with lithium caution (transportation requirement)

*In combination with COL50, IPX6 Washable can only be guaranteed if a minimum interval of 24 hours between each wash is observed.

Usage

Compatibility:	COL50 and CHL50
Duty cycle:	Max. 10% (or 2 min. continuous use followed by 18 min. without use) at max. discharge current (10 A)
Charging:	Via external wall charger CHL50 or via COL50 with integrated charger
Charging current:	3 A, limited to 350 mA with COL50 and 600 mA with CHL50
Charging time (approx.):	4 hours with CHL50
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
Charging temperature:	+5 °C to +40 °C Charging at elevated temperatures can impact the charging time
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% - 80% – non-condensing
Atmospheric pressure	700 to 1060 hPa
Height above sea level:	Max. 3000 meters
Cycles per charge (lifts/lowerings):	Approx. 40 cycles*
Warranty:	5 years
Approvals:	IEC 60601-1 ANSI/AAMI ES60601-1 CSA CAN/CSA-C22.2 NO. 60601-1 IEC 60601-2 IEC62133-2

* Number of lifts and lowerings with a fully charged battery under the following conditions: Normal speed (COL50 and LA44), thrust up to 6,000 N

Stroke: S = 200 mm. The actuator does not reach the end position at any time.

All BAL50 batteries produced in Denmark as of 1 January 2025 will have an extended warranty of 60 months (counting from manufacturing date).

All BAL50 batteries produced prior to this date will follow the standard 12 months warranty period for batteries.

Ordering example

BA L 5 0 D 9 B 29 0 S 000

Reserved for future use

Software

S Standard software

Reserved for future use

Capacity

2.9 Ah

Ampere-hour (Ah) rounded down to the nearest whole point number

Technology

B - Li-Ion (NMC)

IP degree

9 IPX6 Washable

Colour

D RAL 9003 white

A RAL 7035 light grey

Model

L50 LIFT™ 50 series

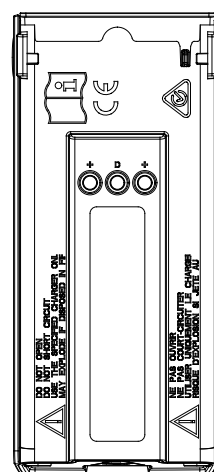
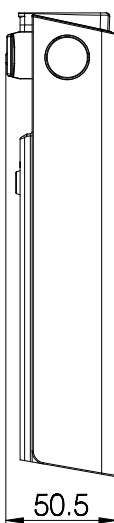
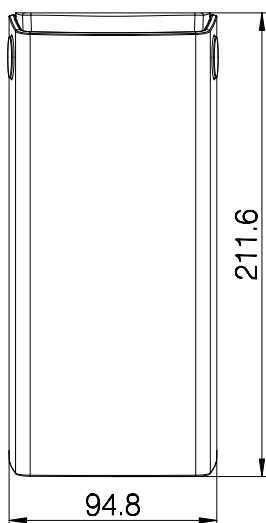
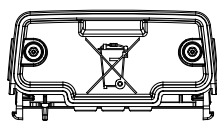
Family

BA Battery Box

A half pallet contains 140 pcs of BAL50.

Dimensions

All dimensions are in mm.



Drawing no.: 1039w4000

LINAK® will remedy defective Li-Ion batteries built into LINAK products in accordance with the terms stipulated in the LINAK Li-Ion battery disclaimer available on the LINAK website. LINAK explicitly disclaims all other remedies and liability.

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