



# Battery BAL50 Data sheet

# BAL50

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

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 5 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.



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## 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
- Li-Ion batteries will give you much faster return on investment (ROI)
- IPX6 Washable

## Features and options:

- Capacity: 2.85 Ah
- Weight: 0.9 kg
- Cycles per charge (lifts/lowerings): Approx. 40 cycles\*
- Charging time (approx.): 4 hours
- Chemistry: NMC
- Energy: 73.25 Wh
- Voltage: 25.70 V
- IP rating: IPX6 Washable\*\*
- Colour: Signal white RAL 9003

\* 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.

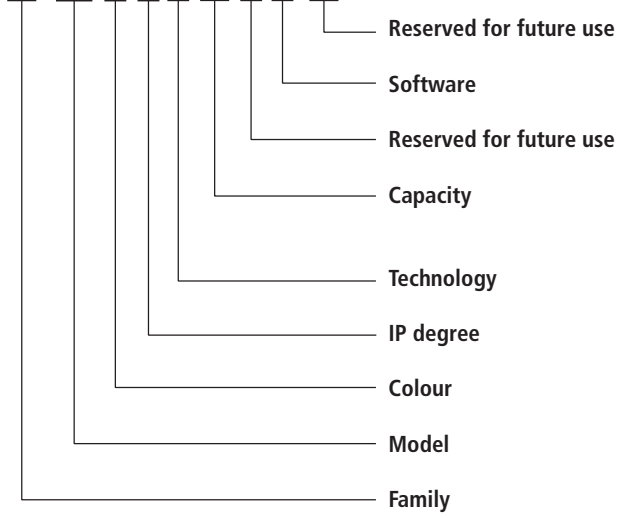
\*\* IPX6 Washable can only be guaranteed if a minimum interval of 24 hours between each wash is observed.

**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 state: Maximum 30% when shipped from LINAK
- Recharging during storage: First recharge of the battery must be no later than 12 months after production date stated on the label. Hereafter the battery must be recharged at least every 12 months.
- Operating temperature: +5 °C to +40 °C
- Charging temperature: +5 °C to +40 °C  
Charging at elevated temperatures can impact the charging time
- Charging time: Approx. 4 hours
- 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.
- Relative humidity: 20% - 80% – non-condensing
- Atmospheric pressure 700 to 1060 hPa
- Meters above sea level: Max. 3000 meters
- Approvals: IEC 60601-1  
ANSI/AAMI ES60601-1  
CSA CAN/CSA-C22.2 NO. 60601-1  
IEC 60601-2  
IEC62133-2

**Ordering example  
BAL50**

BA L50 D 9 B 29 0 S 000



S = Standard software

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

B = Li-Ion (NMC)

9 = IPX6 Washable

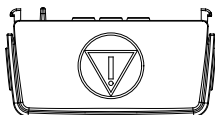
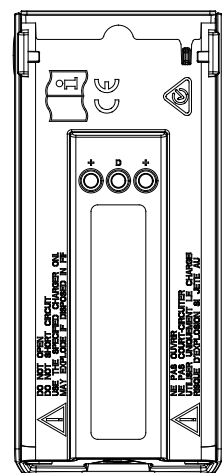
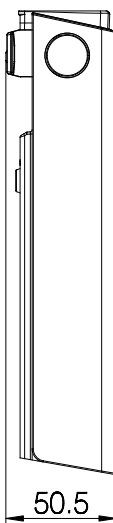
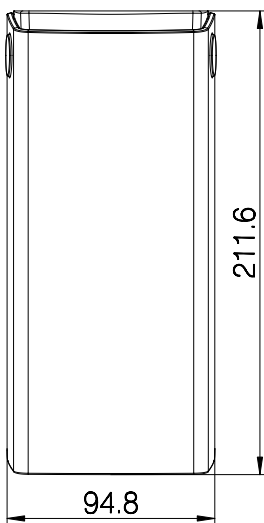
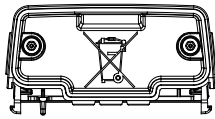
D = White RAL 9003

L50 = LIFT™ 50 series

BA = Battery Box

Remark: NMC = LiNiMnCoO2 = Lithium Nickel Manganese Cobalt Oxide

**Dimension drawing**



Drawing no.: 1039w4000

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