

Battery Pack BAJ Li-Ion Data Sheet



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Introduction



The BAJL battery pack has been specially developed for use with the JUMBO system for patient lifts and sit to stand lifts. It is a low-weight battery with reliable and high performance.

The BAJL battery is based on lithium ion technology. 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 which also means that less transportation of batteries is necessary. Moreover, the lower battery weight improves worklife ergonomics.

All comparisons refer to lead acid batteries, BAJ.

Further advantages by use of the BAJL Li-Ion are

- Service life up to 4 times longer compared to lead acid
- Easy to remove and attach the battery with snap system and LINAK mounting bracket
- Battery management enables indication of when to charge the battery on the
- JUMBO control box or on the hand control
- Easy and flexible charging

Features and Options

Lithium Ion technology:	Type 1 + 2: Lithium Iron Phosphate (LFP)
Lifetime:	Up to 4 times longer depending on the usage (compared to lead acid)
• Output voltage:	24 V DC
• Housing colour:	Standard dark grey bottom (RAL 7016) and light grey top (RAL 7035) Optional light grey bottom (RAL 7035)
• Protection class:	IPX5 (only when mounted according to mounting instruction)
• Front covers:	Standard or customised
• Packaging:	Every battery is packed individually in UN38.3-approved packaging

Specifications

	Standard capacity	High capacity
Type (see Ordering Example)	Type 1	Type 2
Capacity	3.3 Ah	6.6 Ah
Weight	1.5 kg	2.2 kg
Cycles per charge (lifts/lowerings)	60	120
Charging time (approx.)	4 - 5 h	10 h
Energy	84 Wh	169 Wh

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

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

Usage

Compatibility:	CBJ Care, CBJ2, COBO, CHJ2 and CH01
Duty cycle:	5%, 1 minute continuous use followed by 19 minutes not in use 10 % 2 minutes continuous use followed by 18 minutes not in use (for type 1, 3.3 Ah, type 2 6.6 Ah)
Charging:	Via JUMBO wall charger CHJ2 or via JUMBO control box with integrated charger
Charging state:	Maximum 30% when shipped from LINAK
Recharging during storage:	Recharge the battery 6 months at the latest after production date stated on the label
Operating temperature:	+5 °C to +40 °C
Charging temperature:	+10 °C to +40 °C
Charging time:	3 to 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% to 80% - non-condensing
Atmospheric pressure:	700 hPa to 1060 hPa
Height above sea level:	Max. 3000 meters
Approvals:	IEC60601-1:2005 3rd edition, ANSI / AAMI ES60601-1:2005, 3rd edition, CAN / CSA-22.2 No 60601-1:2008, IEC62133 2nd edition, UL2054, 2nd edition PSE (pending) UN38.3, 6th edition (needed for transportation of lithium batteries)

Ordering example

BAJ L 00 1 1 00 0 0 xx 1

IP protection

1 = IPX5

Frontplate no.

See the front cover table for details

xx (last 2 digits)

Type	Colour	Front cover no.	Front cover	Capacity Ah
BAJL Li-Ion	Blue	47	00J1BA047	3.3
BAJL Li-Ion High	Blue	48	00J1BA048	6.6

Color of bottom part

0 = RAL7016, dark grey (standard)

1 = RAL7035, light grey

0 = Not used

00 = Not used

0 = Not used

Energy

1 = 3.3 Ah BAJL

2 = 6.6 Ah BAJL

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

Options

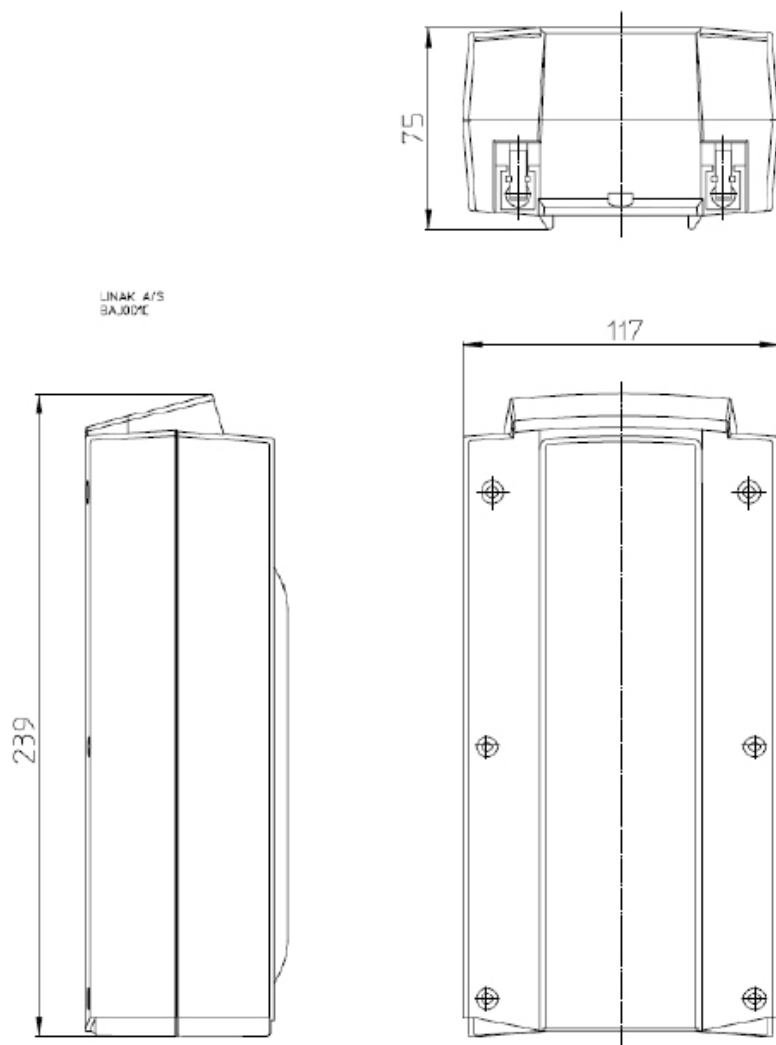
00 = Standard

Type

L = Li-Ion battery pack

84 pcs. correspond to a half pallet, 168 pcs. correspond to a Euro-pallet.

Dimensions



Drawing number: BAJ001C

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.

Front covers

Li-Ion
00J1BA047



3.3 Ah

Li-Ion
00J1BA048



6.6 Ah

Contacts

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