

# Instruction Manual

LITEBLOX batteries (GEN3)

**LITE**  **BLOX**  
high performance lightweight batteries

Thank you for buying this LITEBLOX battery and showing trust in our young company. To make sure, that you receive an immaculate product with high durability, each single LITEBLOX is carefully assembled by hand in our manufactory and subjected to visual and technical tests before shipping.

Each battery comes fully charged and is „ready for to go“.

Please make sure to read the following advices carefully, prior to the first installation of the battery in your vehicle and keep this manual at a safe place.

## Scope of delivery

LITEBLOX battery / pair of protective caps / 4x screws V2A / 2x washers V2A / air refresher / Sticker "NoFatBatteries" / Sticker "charging"

## Intended use

LITEBLOX models (LB11XX / LB19XX / LB26XX) are exclusively made to start combustion engines with charging via alternator and should not be used for any other purposes.

## Installation (only by qualified personnel)

1. Check battery for visual damages before first use
2. Install battery with the implemented bracket, using delivered material
3. Connect to the vehicle electronics

The connection can either be done via the standard (OEM) vehicle terminal clamps or ring cable lugs (in this case remove the black protective caps on top before installation).

Connect first positive (+), then negative pole (-) to the vehicle electronics; (reverse order during disassembly).

Make sure, to install the terminals clamps without using any additional force (if too tight, spread open before installing).

Connections are to be shielded carefully against surroundings, vibrations and fraying. Parts carrying electricity should never get in contact with the battery housing and should therefore be shielded carefully.

Our LITEBLOX are most widely maintenance free, but should be checked regularly for proper fixture, save wiring and optimal state of charge.

## Usage

The lifespan of the LITEBLOX can be optimized if operated within our recommendations for temperature range, voltage and intended use (usage under different conditions can result in highly reduced life cycle duration):

- Operating Voltage: 13,6 - 14,6V (check at alternator before using)
- Operating Temperature: 0 - 40°C (shield from hot components)
- Storage Temperature: 15 - 20°C (take out of vehicle for storage during winter)
- Storage Capacity: 40 - 60% (discharge before storage)

Our electronics is equipped with an intelligent monitoring system to protect the cells, which reports critical states (discharge <12,4V / overcharge >14,6V) by an acoustic alarm signal (~80dB) in realtime - see further diagnosis informations on:

[www.liteblox.de/media/pdf/LITEBLOX\\_errordiagnosis.pdf](http://www.liteblox.de/media/pdf/LITEBLOX_errordiagnosis.pdf)

In this case recharge the LITEBLOX in time, using our battery charger LB100Is, or return to us for service. When using the Charger LB100Is, make sure to disconnect your vehicle while charging (remove minus pole or use break switch) and read the charger manual in advance.

Evaluate full battery parameters with your smartphone via NFC-interface (symbol on top) at realtime for surveillance, diagnostics and remote maintenance - see further information on:

[www.liteblox.de/media/pdf/LITEBLOX\\_NFC.pdf](http://www.liteblox.de/media/pdf/LITEBLOX_NFC.pdf)

**Never deepcharge (<8,0V) or overcharge (>15,0V) your LITEBLOX at any time.**

**If so return to your dealer for service immediately - same if the charging time is >2h.**

**Never try to recharge using jump start or booster device, as this might harm or damage the cells permanently!**

## Safety advices

- do not disassemble
- do not short-circuit
- do not heat or incinerate
- do not crush the housing
- do not immerse in any liquid
- respect charging instructions
- charge only with appropriate device (charger LB100Is)

## Warranty

The product is only to be used like described above and treated with care.

Warranty claims expire in case of inappropriate storage or usage, as well as errors and damages caused by third party intervention.

In case of power loss or damage related to inappropriate charging devices, the warranty claim will be refused as well.

Detailed legal information on: [www.en.liteblox.de/general-terms-and-conditions/](http://www.en.liteblox.de/general-terms-and-conditions/)