

# Instruction Manual

LITE $\frac{1}{4}$ BLOX batteries (GEN4)

**LITE  BLOX**  
high performance lightweight batteries

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

Thank you for buying this LITE $\frac{1}{4}$ BLOX battery and showing trust in our young company. To make sure that you receive an immaculate product with high durability, every LITE $\frac{1}{4}$ BLOX battery is carefully assembled by hand in our manufactory and subjected to extended visual and technical tests before shipping.

Each LITE $\frac{1}{4}$ BLOX battery comes fully charged and is „ready for to go“.

## Scope of delivery

LITE $\frac{1}{4}$ BLOX battery / protective caps / mounting material / promotion package

## Intended use

Our LITE $\frac{1}{4}$ BLOX GEN4 battery models (LB13XX / LB19XX / LB26XX) are exclusively made to start automotive combustion engines with charging via alternator (13,8-15,2V) and should not be used for any other purposes. Please use the configurator on our website or contact us to make sure that you have chosen the right model for your application.

## Installation (only by qualified personnel)

1. Check battery for visual damages before first use
2. Install battery with the integrated bracket, using the included mounting material
3. Connect to the vehicle electronics (make sure to apply battery pole grease)
4. Read the attached installation manual\*\* on how to teach-in the battery to your car
5. Start your car and check the alternator voltage (via multimeter or smartphone-app\*)

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 to reach the inside threads). Connect first positive (+), then negative pole (-) to the vehicle electronics (reverse order during disassembly). Make sure, to mount the terminals clamps without using any additional force (if too tight, spread open before installing) and make sure to not exceed a maximum torque of 7Nm for all battery pole mounting components at any time.

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

Our products are maintenance free, but should be checked regularly for proper fixture, save wiring and optimal state of charge via the "LITE $\frac{1}{4}$ BLOX remote" smartphone-app\*.

customer service:

LITEWERKS GmbH / Robert-Bosch-Str. 18 / D-78467 Konstanz  
+49 (0) 7533 9929001 / info@liteblox.de / www.liteblox.de

## Usage

Usage under conditions deviating from the product label can result in highly reduced life cycle and may lead to corrosive injuries, fire, damage or permanent peripheral failures. The lifespan of your LITE $\frac{1}{2}$ BLOX battery can be optimized if operated within our recommendations for intended use and storage:

- Operating Voltage: 13,8 - 15,2V (check the alternator & read the additional installation manual\*\* before using)
- Operating Temperature: 0 - 50°C (shield from hot components)
- Storage Temperature: 10 - 20°C (remove from the vehicle for storage during winter)
- Storage Capacity: 40 - 80% (should not be maintained with a charger when disconnected)

Our LITE $\frac{1}{2}$ BLOX GEN4 is equipped with an intelligent power-electronics, providing a linkage to the vehicle peripherals, reports critical states by an acoustic alarm signal (~80dB) and disconnects the battery permanently on any state of overload or misuse (for ex. short-circuit or overcharge). In this case, please make sure to erase any source of malfunction permanently before reactivating the LITE $\frac{1}{2}$ BLOX again via the smartphone-app and contact our customer service for further advices on any uncertainties at any time. For the use in cars with intelligent battery management systems (mostly along with start-stop) please make sure to read our installation manual\*\* carefully in advance and contact your qualified specialist workshop on any uncertainties.

Never try to jump-start your LITE $\frac{1}{2}$ BLOX at any time - which is not ever necessary, since the it disconnects on low voltage autonomously, enabling you to start your car at least once. Only use our charger LB100I and prevent all electrical load while charging (disconnect negative terminal) and make sure to read the charger manual\*\* carefully in advance. Last but not least, please feel free to send your respective battery data logs to our customer service for a check at any time, using the "send data" button in the smartphone app\*.

*\* evaluate full battery parameters with your smartphone-app via the integrated wireless interface for surveillance, diagnostics and remote maintenance by our customer service - the app will also inform you about specific error codes and the data history*

*\*\* all additional manuals are also available for download on our website (see link below)*

## Safety advice

- only use in vehicles, approved by retailer or manufacturer - list for download (see below)
- do not open, modify or change the product in any way
- do not overload, heat up or incinerate the product since this may cause explosion or fire
- do not short circuit the battery poles and make sure to cover them if not in use
- do not immerse in any liquid or apply direct water with pressure >1bar (car wash)
- respect charging instructions and charge only with our appropriate device (LB100I)

## Warranty

The product is only to be used like described above and has to be 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, a warranty claim can be refused.

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