

# Specification Sheet

## STORE

### STR180

LiFePO<sub>4</sub> – 12,8 V – 2304 Wh  
high performance accumulator



symbolic image

version: 2.1

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## 1 Technical specifications

| <i>Specification</i>  | <i>Value</i>        | <i>Annotation</i>                         |
|---|---------------------|---|
| <b><i>Dimensions</i></b> - see chapter <a href="#">dimensions</a> |                     |   |
| Weight  | 20xxx g             |   |
| <b><i>Cell</i></b>  |                     |   |
| Cell chemistry  | LiFePO4             |   |
| <b><i>Temperature</i></b>   |                     |   |
| Temperature range for use   | (- 25) – (+ 65) °C  | (0) – (+ 50) °C<br>for optimal cycle life |
| Temperature range for storage                                     | (0) – (+ 40) °C     |   |
| <b><i>Other</i></b>   |                     |   |
| Protection class conformity                                       | IP65                |   |
| Certification   | ECE R10, UN38.3, CE |   |

## 2 Electrical specifications

| <i>Specification</i>             | <i>Value</i>                        | <i>Annotation</i> |
|----------------------------------|-------------------------------------|-------------------|
| <b><i>Battery Pack</i></b>       |                                     |                   |
| Capacity (nominal)               | 180 Ah                              | ± 5%              |
| Voltage (nominal)                | 12,8 V                              |                   |
| Energy                           | 2304 Wh                             | ± 5%              |
| <b><i>Charging</i></b>           |                                     |                   |
| Voltage charge (recommended)     | 14,4 V                              |                   |
| Current charging (max.)          | < 150 A                             |                   |
| <b><i>Discharging</i></b>        |                                     |                   |
| Current discharging (continuous) | < 150A / 200 A <sup>&lt;20min</sup> |                   |
| Current discharge (5s pulse)     | < 400 A                             |                   |

### 3 Features of the Battery Management System (BMS)

| <i>Feature</i>            | <i>Description</i>   | <i>Details</i>                |
|---------------------------|--|-------------------------------|
| <b>Balancing</b>          | charge transfer to prevent long term cell deviation (passive)  |                               |
| <b>Communication</b>      | <ul style="list-style-type: none"><li>• Wireless connection to an external device (smartphone/tablet) to display battery condition and status via bluetooth</li><li>• RS485, UART</li></ul>  | <a href="#">LITE BLOX App</a> |
| <b>Protection</b>         | Self-protection when running outside the intended operation limits.<br><br>The battery protects itself against <ul style="list-style-type: none"><li>• overcharging</li><li>• deep discharge</li><li>• overload</li><li>• (short-term) short circuit</li></ul> |                               |
| <b>low self-discharge</b> | 20 $\mu$ A-150 $\mu$ A in standby-mode   |                               |

## 4 LITE BLOX App

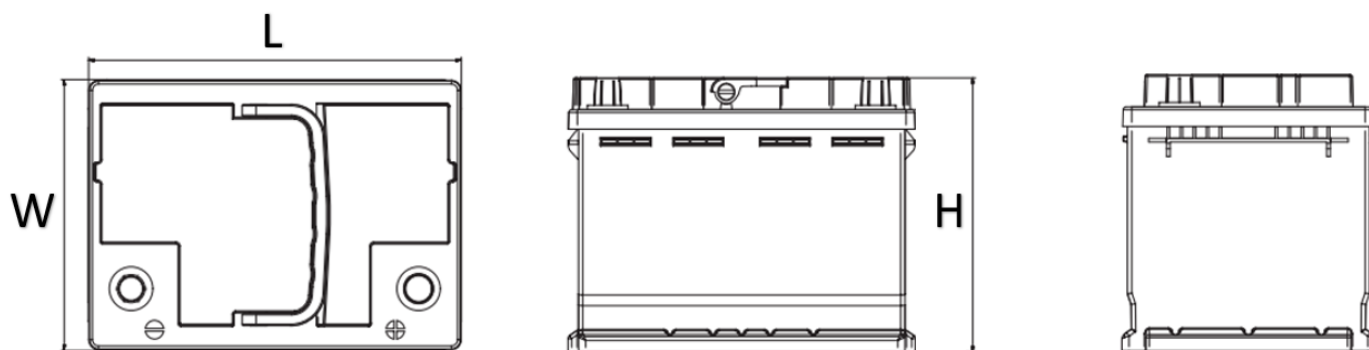
Every LITE BLOX unit comes with an innovative interface for wireless operation via smartphone or tablet (bluetooth). The bluetooth is activated as soon as the battery is in use (being charged or discharged).



**LITE BLOX App for download:**



## 5 Dimensions



symbolic image

| <i>dimensions</i> | <i>L in mm</i><br>$\pm 2$ | <i>W in mm</i><br>$\pm 2$ | <i>H in mm</i><br>$\pm 2$ |
|-------------------|---------------------------|---------------------------|---------------------------|
| <b>LN 6</b>       | 394                       | 175                       | 190                       |

## 6 Certification (ISO 9001:2015)



### **LITEWERKS GmbH**

**Robert-Bosch-Str. 10, D-78467 Konstanz**

wurde durch DSR-CERTIFICATION auditiert und es wird bestätigt, dass das  
Qualitäts-Management-System den Erfordernissen der

*is audited by DSR Certification and applied that the Quality Management System meets the requirements of*

## **ISO 9001:2015**

für den nachfolgenden Umfang entspricht:  
*standard for the following activities:*

**Entwicklung, Herstellung und Vertrieb von Akkumulatoren**  
*Development, Production and Distribution of Accumulators*

**Zertifikats-Nr.:/Certificate No: QMS-23.02.372**