

## DECLARATION OF CONFORMITY UN38.3

We herewith confirm that each battery of this type is proved to meet the requirements of applicable tests in the UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, Part III, Sub-Section 38.3.

In the following, lithium battery test summary according to Sub-Section 38.3.5

- (a), (b) Manufacturer: Victron Energy B.V.  
De Paal 35  
1351 JG Almere  
The Netherlands  
Phone: +31 (0) 36 5359700  
E-Mail: [fvandenhende@victronenergy.com](mailto:fvandenhende@victronenergy.com)  
Webpage: [www.victronenergy.com](http://www.victronenergy.com)
- Customer: Victron Energy B.V.  
De Paal 35  
1351 JG Almere  
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Phone: +31 (0) 36 5359700  
E-Mail: [fvandenhende@victronenergy.com](mailto:fvandenhende@victronenergy.com)  
Webpage: [www.victronenergy.com](http://www.victronenergy.com)
- (c) Test laboratory: Batteryuniversity GmbH  
Am Sportplatz 30  
63791 Karlstein am Main  
Germany  
Phone: +49 (0)6188 – 99410-0  
Fax: +49 (0)6188 – 99410-20  
E-Mail: [mail@bu-lab.eu](mailto:mail@bu-lab.eu)  
Webpage: [www.bu-lab.eu](http://www.bu-lab.eu)
- (d) Report reference no.: BU-2018-00097-0-B1
- (e) Date of test report: March 05,2019
- (f) Description of devices under test:
- |                            |  |
|----------------------------|--|
| (i) Type:                  | Lithium-ion batteries  |
| (ii) Mass:                 | 20.00 kg   |
| (iii) Watt-hour rating:    | 1,920.00 Wh  |
| (iv) Physical description: | 4S LiFePO4<br>12.8 V rechargeable Lithium-iron-phosphate battery |
| (v) Model numbers:         | BAT512115610   |
- (g) Performed tests:
- |                             |               |
|-----------------------------|---------------|
| T.1 Altitude simulation:    | Passed        |
| T.2 Thermal test:           | Passed        |
| T.3 Vibration:              | Passed        |
| T.4 Shock:                  | Passed        |
| T.5 External short circuit: | Passed        |
| T.6 Impact/Crush:           | Not performed |
| T.7 Overcharge:             | Passed        |
| T.8 Forced discharge:       | Not performed |
- (h) Reference to assembled battery testing requirements: [Not applicable]
- (i) Applied standard: UN ST/SG/AC.10/11/Rev.6, Amend.1  
Recommendations of the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Part III, section 38.3, Lithium metal and lithium ion batteries

(j) Signature:

December 10, 2019

Klaus Heck, Managing Director