

## UN 38.3 TEST REPORT SUMMARY

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.7, 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-Haven  
The Netherlands  
Phone: +31 36 5359700  
Fax:  
E-Mail: sales@victronenergy.com  
Webpage: www.victronenergy.com
- Customer: Victron Energy B.V.  
De Paal 35  
1351 JG Almere-Haven  
The Netherlands  
Phone: +31 36 5359700  
Fax:  
E-Mail: sales@victronenergy.com  
Webpage: www.victronenergy.com
- (c) Test laboratory: Batteryuniversity GmbH  
Am Sportplatz 30  
63791 Karlstein am Main  
Germany  
Phone: +49 6188 – 99410-0  
Fax: +49 6188 – 99410-20  
E-Mail: mail@bu-lab.eu  
Webpage: www.bu-lab.eu
- (d) Report reference no.: BU-202000335-B1
- (e) Date of test report: December 18, 2020
- (f) Description of devices under test:
- |                            |   |
|----------------------------|---|
| (i) Type:                  | Lithium ion batteries                           |
| (ii) Mass of battery:      | 14.00 kg  |
| (iii) Watt-hour rating:    | 1280.0 Wh                                       |
| (iv) Physical description: | 4S2P 36130162LFP-50Ah; rechargeable battery     |
| (v) Model numbers:         | BAT512110710 Lithium SuperPack 12,8V/100Ah (M8) |
- (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.7  
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 18, 2020

Klaus Heck, Managing Director