

**UN 38.3 Test Summary**

*Lithium Battery Test Summary in Accordance with Sub-section 38.3 of the UN Manual of Tests and Criteria*

**Manufacturer [a], [b]:**

KION Battery Systems GmbH  
Zeche Gustav 1, Unit 3; 63791 Karlstein am Main; Germany  
Phone: +49 (0)6188 9929-0  
E-Mail: [info@kion-batterysystems.com](mailto:info@kion-batterysystems.com)

**Tested P/N [f] (v):** (1) BG 3.13, (2) 15S1P CATL PrehLiX, (3) CB5Q0 3.22V 94.5Ah 304.29Wh

**Qualified type P/N [f] (v):** BG 2.12

**Test report reference (ID) [d]:** (1) KBS/2023/05/01-BG13\_3\_BG5\_14, (2) BU-202200305-B1, (3) RZUN2022-5793

**Test report date [e]:** (1) 16/05/2023, (2) 10/02/2023, (3) 29/12/2022

**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg, (2) Batteryuniversity GmbH, Am Sportplatz 30, 63791 Karlstein am Main, (3) CVC Testing Technology Co., Ltd., No. 3 Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China, Building D, BASIGO INTELLIGENT, No. 179, Guangpu East Road, Huangpu District, Guangzhou, P.R. China

**Battery description [f]:**

Technology (i): Lithium Ion

Mass (ii): 861 kg

Watt hour rating (iii): 23800 Wh (\*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 6 modules in parallel, each consisting of 15 serial strings of CB5Q0 cells

**List of Tests conducted [g]:**

T.1 Altitude simulation:	Passed	T.5 External short circuit:	Passed
T.2 Thermal Test:	Passed	T.6 Impact/Crush:	Passed
T.3 Vibration:	Passed	T.7 Overcharge:	N/A
T.4 Shock:	Passed	T.8 Forced discharge:	Passed

**Reference to assembled battery testing requirements [h]:** Assembly of batteries 38.3.3 (g)

**Applied standard [i]:** UN ST/SG/AC.10/11/Rev. 7

**Signatory [j]:**

Date: 31.07.2023

Signature:

Christian Hasenstab - or -  Tobias Zierhut  
Managing Director