

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

Tested P/N [f] (v): (1) BG 5.14, (2) 14S1P CATL PrehLiX, (3) CB5Q0 3.22V 94.5Ah 304.29Wh

Qualified type P/N [f] (v): BG 6.12

Test report reference (ID) [d]: (1) KBS/2023/05/01-BG13_3_BG5_14, (2) BU-202200306-B1, (3) RZUN2022-5793

Test report date [e]: (1) 16/05/2023, (2) 02/02/2023, (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): 1585 kg

Watt hour rating (iii): 44500 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 6 x 2 serial modules in parallel, each consisting of 14 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: 28.06.2023

Signature:



Christian Hasenstab - or - Tobias Zierhut
Managing Director