

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) EVE INR21700/50E 3,65V 5,0Ah 18,25Wh
- (2) 28p7s 3577Wh EVE KGRT Modul
- (3) KGRT Batterie BG 26.4 48V 21,46kWh

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

((28p7s)2s)2p Battery Group 26.1

Test report reference (ID) [d]:

- (1) RZUN2024-5167 (KBSRD-1486216538-4217)
- (2) BU-202410138-B1 (KBSRD-1486216538-3905)
- (3) KBS2024120020KSEVE (KBSRD-1486216538-4263),

Test report date [e]:

- (1) 6th of September 2024
- (2) 11th of December 2024
- (3) 17th of December 2024

Test Laboratory [c]:

- (1) CVC Testing Technology Co., Ltd., No. 3 Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China
- (2) Batteryuniversity GmbH, Am Sportplatz 30, D-63791 Karlstein am Main
- (3) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, D-63741 Aschaffenburg

Battery description [f]:

xxxxxx2601xxx

Technology (i):

Lithium Ion

Mass (ii):

268 kg

Watt hour rating (iii):

14.3 kWh

Physical description (iv):

Rechargeable lithium-ion battery composed of 2 module pairs in parallel, each pair consisting of 2 modules in series, each module consisting of 7 serial strings of 28 cells in parallel.

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.8**Signatory [j]:**

Date: 13.6.2025

Signature:



☐ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director

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) EVE INR21700/50E 3,65V 5,0Ah 18,25Wh
- (2) 28p7s 3577Wh EVE KGRT Modul
- (3) KGRT Batterie BG 26.4 48V 21,46kWh

Qualified type P/N [f] (v): ((28p7s)2s)2p Battery Group 26.2

Test report reference (ID) [d]:

- (1) RZUN2024-5167 (KBSRD-1486216538-4217)
- (2) BU-202410138-B1 (KBSRD-1486216538-3905)
- (3) KBS2024120020KSEVE (KBSRD-1486216538-4263),

Test report date [e]:

- (1) 6th of September 2024
- (2) 11th of December 2024
- (3) 17th of December 2024

Test Laboratory [c]:

- (1) CVC Testing Technology Co., Ltd., No. 3 Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China
- (2) Batteryuniversity GmbH, Am Sportplatz 30, D-63791 Karlstein am Main
- (3) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, D-63741 Aschaffenburg

Battery description [f]: xxxxxx2602xxx

Technology (i): Lithium Ion

Mass (ii): 268 kg

Watt hour rating (iii): 14.3 kWh

Physical description (iv): Rechargeable lithium-ion battery composed of 2 module pairs in parallel, each pair consisting of 2 modules in series, each module consisting of 7 serial strings of 28 cells in parallel.

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.8

Signatory [j]: Date: 13.6.2025

Signature:



☐ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director

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) EVE INR21700/50E 3,65V 5,0Ah 18,25Wh
- (2) 28p7s 3577Wh EVE KGRT Modul
- (3) KGRT Batterie BG 26.4 48V 21,46kWh

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

((28p7s)2s)3p Battery Group 26.3

Test report reference (ID) [d]:

- (1) RZUN2024-5167 (KBSRD-1486216538-4217)
- (2) BU-202410138-B1 (KBSRD-1486216538-3905)
- (3) KBS2024120020KSEVE (KBSRD-1486216538-4263),

Test report date [e]:

- (1) 6th of September 2024
- (2) 11th of December 2024
- (3) 17th of December 2024

Test Laboratory [c]:

- (1) CVC Testing Technology Co., Ltd., No. 3 Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China
- (2) Batteryuniversity GmbH, Am Sportplatz 30, D-63791 Karlstein am Main
- (3) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, D-63741 Aschaffenburg

Battery description [f]:

xxxxxx2603xxx

Technology (i):

Lithium Ion

Mass (ii):

268 kg

Watt hour rating (iii):

21.5 kWh

Physical description (iv):

Rechargeable lithium-ion battery composed of 3 module pairs in parallel, each pair consisting of 2 modules in series, each module consisting of 7 serial strings of 28 cells in parallel.

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.8**Signatory [j]:**

Date: 13.6.2025

Signature:



☐ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director

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) EVE INR21700/50E 3,65V 5,0Ah 18,25Wh
(2) 28p7s 3577Wh EVE KGRT Modul
(3) KGRT Batterie BG 26.4 48V 21,46kWh

Qualified type P/N [f] (v): ((28p7s)2s)3p Battery Group 26.4

Test report reference (ID) [d]: (1) RZUN2024-5167 (KBSRD-1486216538-4217)
(2) BU-202410138-B1 (KBSRD-1486216538-3905)
(3) KBS2024120020KSEVE (KBSRD-1486216538-4263),

Test report date [e]:
(1) 6th of September 2024
(2) 11th of December 2024
(3) 17th of December 2024

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

Battery description [f]: xxxxxx2604xxx

Technology (i): Lithium Ion

Mass (ii): 268 kg

Watt hour rating (iii): 21.5 kWh

Physical description (iv): Rechargeable lithium-ion battery composed of 3 module pairs in parallel, each pair consisting of 2 modules in series, each module consisting of 7 serial strings of 28 cells in parallel.

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.8

Signatory [j]: Date: 13.6.2025

Signature:



☐ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director