

 Battery Systems	Produkt Informationsblatt <i>Product Information Sheet (PIS)</i>		Document ID: KBSRD-1143737296-16531	
	Author: Tim.Dickmann@kion-batterysystems.com	Approver : Thomas Kowalski	Approved on : 24.04.2025	Revision: 5.0
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PRODUKT - INFORMATIONSB L A T T
P R O D U C T I N F O R M A T I O N S H E E T (P I S)

Lithium-Ionen Batterie FeLiX mit KION-BMS
Lithium ion battery FeLiX with KION-BMS

1. Bezeichnung des Produkts
Identification of the product

Identifizierung: <i>Identification:</i>	Produktkategorie <i>Product category</i>	Lithium-Ionen Batterie <i>Lithium ion battery</i>
	Chemisches System <i>Chemical system</i>	LFP / Graphit <i>LFP / Graphite</i>
	Wiederaufladbar <i>Rechargeable</i>	☒ Ja Yes ☐ Nein No

B-P/N	Technical Code TC_300_04_6905_	Nenn- spannung Nominal Voltage [V]	Nenn- kapazität Nominal Capacity [Ah]	Nenn- Energie Nominal Energy [kWh]	Gewicht Weight [kg]
xxxxxx0117xxx	4320	48.3	378	18.3	708
xxxxxx0119xxx	4322	48.3	567	27.4	708
xxxxxx0120xxx	4323	48.3	567	27.4	708
xxxxxx0121xxx	4324	48.3	945	45.6	708
xxxxxx0122xxx	4325	48.3	945	45.6	708
xxxxxx0217xxx	4370	48.3	378	18.3	856
xxxxxx0219xxx	4372	48.3	567	27.4	856
xxxxxx0220xxx	4373	48.3	567	27.4	856
xxxxxx0221xxx	4374	48.3	945	45.6	856
xxxxxx0222xxx	4375	48.3	945	45.6	856
xxxxxx0317xxx	4420	48.3	378	18.3	856
xxxxxx0319xxx	4422	48.3	567	27.4	856
Xxxxxx0320xxx	4423	48.3	567	27.4	856
Xxxxxx0321xxx	4424	48.3	945	45.6	856
Xxxxxx0322xxx	4425	48.3	945	45.6	856
Xxxxxx0917xxx	4470	48.3	378	18.3	1013
Xxxxxx0919xxx	4472	48.3	567	27.4	1013
xxxxxx0920xxx	4473	48.3	567	27.4	1013
xxxxxx0921xxx	4474	48.3	945	45.6	1013
xxxxxx0922xxx	4475	48.3	945	45.6	1013
Xxxxxx1317xxx	4620	48.3	283	13.7	750
Xxxxxx1417xxx	4520	48.3	567	27.4	939
Xxxxxx1418xxx	4521	48.3	567	27.4	939
Xxxxxx1419xxx	4522	48.3	756	36.5	939
Xxxxxx1420xxx	4523	48.3	756	36.5	939
Xxxxxx1517xxx	4570	48.3	567	27.4	1119
Xxxxxx1518xxx	4571	48.3	567	27.4	1119
Xxxxxx1519xxx	4572	48.3	756	36.5	1119
Xxxxxx1520xxx	4573	48.3	756	36.5	1119
Xxxxxx0517xxx	6720	90.2	378	34.1	1210
Xxxxxx0519xxx	6722	90.2	567	51.1	1210
Xxxxxx0520xxx	6723	90.2	567	51.1	1210
Xxxxxx0521xxx	6724	90.2	945	85.2	1210
Xxxxxx0522xxx	6725	90.2	945	85.2	1210
Xxxxxx0617xxx	6770	90.2	378	34.1	1558
Xxxxxx0619xxx	6772	90.2	567	51.1	1558
Xxxxxx0620xxx	6773	90.2	567	51.1	1558
Xxxxxx0621xxx	6774	90.2	945	85.2	1558
Xxxxxx0622xxx	6775	90.2	945	85.2	1558
Xxxxxx0717xxx	6822	90.2	472	42.6	2178
Xxxxxx0719xxx	6824	90.2	756	68.2	2178

Xxxxxx0720xxx	6825	90.2	756	68.2	2178
Xxxxxx0721xxx	6826	90.2	1323	119.3	2178
Xxxxxx0722xxx	6827	90.2	1323	119.3	2178
Xxxxxx0723xxx	6828	90.2	850	76.7	2178
Xxxxxx0724xxx	6829	90.2	850	76.7	2178
Xxxxxx0725xxx	6830	90.2	1323	119.3	2178
Xxxxxx0726xxx	6831	90.2	1323	119.3	2178
Xxxxxx1017xxx	6870	90.2	472	42.6	1458
Xxxxxx1019xxx	6872	90.2	756	68.2	1458
Xxxxxx1020xxx	6873	90.2	756	68.2	1458
Xxxxxx1021xxx	6974	90.2	1134	102.2	1458
Xxxxxx1022xxx	6875	90.2	1134	102.2	1458
Xxxxxx1119xxx	7214	90.2	378	34.1	1238
Xxxxxx1120xxx	7215	90.2	378	34.1	1238

Tabelle 1: Eigenschaften der Batterie, *Battery Characteristics*

2. Angabe des Produzenten
Identification of the manufacturer

Name und Adresse	KION Battery Systems GmbH
<i>Name and address</i>	Zeche Gustav 1, Unit 3
	D-63791 Karlstein am Main
Telefon / Phone	+49 (0) 6188 / 9929-0
E-mail / E-mail	info@kion-batterysystems.com

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3. Mögliche Gefahren

Hazards Identification

Gefahren:

Hazards:

Lithium-Ionen-Batterien können bei unsachgemäßer Handhabung Feuer entwickeln, explodieren oder chemische Verätzungen verursachen. Batterien keinesfalls kurzschließen, durchstoßen, in Feuer werfen, quetschen, in Wasser tauchen, erzwungen entladen oder Temperaturen aussetzen, die außerhalb der angegebenen Betriebsspanne des Produktes liegt. Bitte lesen Sie die Bedienungsanleitung sorgfältig.

Unter normalen Bedingungen treten keine gefährlichen Stoffe aus und es kann zu keiner Berührung mit toxischen Stoffen kommen. Ein Expositionsrisiko besteht nur im Falle unsachgemäßer Handhabung (mechanisch, thermisch, elektrisch), die zur Aktivierung der Sicherheitsventile und/oder zum Aufbrechen des Gehäuses führt. Auslaufen der Elektrolytflüssigkeit, Reaktion der Elektrodenmaterialien mit Feuchtigkeit/Wasser oder Batterieentlüftung/Feuer/Explosion können, abhängig von den Begleitumständen, die Folge sein.

Durch Berührung stromführender Bauteile kann es zu einem elektrischen Schlag kommen, der thermische oder muskellähmende Auswirkungen haben kann. Letztere können zu Herzkammerflimmern, Herzstillstand oder Atemlähmung mit tödlichem Ausgang führen.

Lithium-ion batteries may present a risk of fire or explosion or chemical burn when mistreated. Do not short circuit, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above the declared operating temperature range of the product. Read instructions carefully.

Under normal conditions of use, the chemicals and metals are contained in a sealed can and are not exposed to the outside. Risk of exposure only in case of abuse (mechanical, thermal, electrical) which leads to the activation of safety valves and/or the rupture of the battery housing. Electrolyte leakage, electrode materials reaction with moisture/water or battery vent/fire/explosion may follow, depending on the circumstances.

Touching live parts may cause electrical shock which may result in thermal heating or muscle paralyzing effects. The latter may cause ventricular fibrillation, sudden cardiac arrest or respiratory paralysis with fatal ending.

Toxizität:

Toxicity:

Brennt eine Batterie, so können Reizungen infolge von entstehendem Rauch oder entstehenden Dämpfen an Augen, Haut und Atemwegen auftreten.

If a battery burns, the vapors can irritate eyes, skin and the respiratory tract.

4. Zusammensetzung und Angaben zu den Bestandteilen

Composition and information on ingredients

Die folgenden Komponenten sind in der verschlossenen Zelle enthalten.

The following components are found inside the sealed Li-ion battery can.

Chemische Bezeichnung / <i>Chemical name</i>	CAS-Nummer / <i>CAS number</i>	EC-Nummer / <i>EC-no.</i>
Graphit Kohlenstoff / <i>Graphite Carbon</i>	7782-42-5	231-955-3
Aluminiumfolie / <i>Aluminium foil</i>	7429-90-5	231-072-3
Kupferfolie / <i>Copper foil</i>	7440-50-8	231-159-6
Lithium Eisenphosphat / <i>Lithium iron phosphate</i>	15365-14-7	604-917-2
Polyvinylidenfluorid / <i>Polyvinylidene fluoride</i>	24937-79-9	607-458-6
Acetylenruß / <i>Acetylene Black</i>	1333-86-4	215-609-9
Carboxymethylcellulose Natrium / <i>Carboxymethylcellulose sodium</i>	9004-32-4	618-378-6
Lithiumhexafluorophosphat / <i>Lithium hexafluorophosphate</i>	21324-40-3	244-334-7
Dimethylkarbonat / <i>Dimethyl carbonate</i>	616-38-6	210-478-4
Ethylencarbonat / <i>Ethylene Carbonate</i>	96-49-1	202-510-0
Diethylkarbonat / <i>Diethyl Carbonate</i>	105-58-8	203-311-1
Ethylmethylcarbonat / <i>Ethyl Methyl Carbonate</i>	623-53-0	433-480-9

5. Erste-Hilfe-Maßnahmen

First aid measures

Die unter Punkt 4 angegebenen Chemikalien befinden sich in einem abgedichteten Gehäuse, sodass sie bei normalem Gebrauch nicht austreten können.

Die Gefahr des Austretens besteht nur durch mechanischen, thermischen oder elektrischen Missbrauch.

The chemicals listed in para. 4 are contained in sealed cans. Upon normal conditions of use, risk of exposure occurs only if the battery is mechanically, thermally or electrically abused.

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Sollten Chemikalien austreten, ist Folgendes zu beachten:

If chemicals leak attend these advices:

- Einatmen:** Austretende Gase können zu Atemwegsbeschwerden führen.
Inhalation: Sofort lüften oder an die frische Luft gehen, in schlimmeren Fällen sofort einen Arzt rufen.
Contents of an opened battery can cause respiratory irritation. Provide fresh air and call a doctor.
- Hautkontakt:** Es können Hautirritationen auftreten.
Skin contact: Haut mit Seife und Wasser gründlich waschen.
Contents of an opened battery can cause skin irritation. Wash skin with soap and water.
- Augenkontakt:** Es kann zu Reizungen an den Augen kommen.
Eye contact: Sofort die Augen 15 Minuten lang gründlich mit Wasser spülen, dann einen Arzt aufsuchen.
Contents of an opened battery can cause eye irritation. Immediately flush eyes thoroughly with water for 15 minutes and seek medical attention.

Sollte es zu einem Stromschlag gekommen sein, ist Folgendes wichtig:

- den Verletzten nicht berühren, bevor Spannungsfreiheit sichergestellt ist;
- freiliegende, stromführende Kabel mit Hilfe nichtleitender Gegenstände vom Verletzten wegziehen
- bei bewussten Patienten ist die Sicherstellung von Atmung und Herz-Kreislauffunktion vorrangig, gegebenenfalls ist die sofortige Herz-Lungen-Wiederbelebung einzuleiten;
- bei ansprechbaren Patienten sind Brandverletzungen zu kühlen und mit einer keimarmen, nicht flusenden Wundauflage abzudecken

If it should have come to an electric shock, your acting should be based on the following:

- *do not touch the injured person until you have ensured the absence of voltage*
- *take away exposed live cables from the injured person by using non-conductive items*
- *primary objective in the treatment of unconscious patients is the maintenance of their breathing and cardiovascular system. If necessary you have to give cardiopulmonary resuscitation.*
- *cool burn injuries and cover them with an aseptic and non-fluffy wound dressing.*

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6. Maßnahmen zur Brandbekämpfung

Fire fighting measures

Im Brandfall:

In case of fire:

Bereich evakuieren

Feuerwehr alarmieren

Umgebungsluftunabhängigen Atemschutz verwenden

Auf die Seite des Feuers stellen, aus der der Wind kommt

Zum Herabkühlen eines Entstehungsbrandes ist Wasser das Löschmittel der ersten Wahl. Falls kein Wasser zur Verfügung steht, kann Sand oder Feuerlöscher der Brandklasse A/B/C verwendet werden.

Die Batterie sollte nach Möglichkeit durch eine Person mit umgebungsluftunabhängigem Atemschutz in einen sicheren Bereich (5 m Abstand zu Gebäuden) gebracht werden.

Evacuate the area

Alert the fire department

Use self-contained breathing apparatus

Stand on the side of the fire from which the wind is blowing

Water is the first choice of extinguishing agent to cool down an incipient fire. If water is not available, sand or fire extinguishers of fire class A/B/C can be used.

If possible, the battery should be moved to a safe area (5 m away from buildings) by a person wearing respiratory protection that is independent of the surrounding air.

Warnung:

Warning:

Durch das Einatmen von Gasen und Dämpfen kann es zu Vergiftungen kommen.

Bevor Sie beginnen das Feuer zu löschen, stellen Sie sich bitte auf die Seite des Feuers, aus welcher der Wind kommt. So atmen Sie keine giftigen Dämpfe ein.

Inhalation of gases and vapors can lead to poisoning.

Before starting to extinguish the fire, be sure, that you are at windward of fire. So you cannot inhale toxic vapors.

7. Maßnahmen bei unbeabsichtigter Freisetzung

Accidental release measures

Ausgelaufene Elektrolytflüssigkeit sollte mit einem saugfähigen Stück Stoff aufgewischt werden.

Wipe up leaked electrolyte fluid with an absorbent cloth.

Im Falle einer größeren Freisetzung sollte getragen werden:

If there is a lot of leaked electrolyte, you should wear:

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- schützende Kleidung
protective clothing
- Atemschutz gegen organische Gase
gas mask for organic gases
- Schutzbrille
safety goggles
- Schutzhandschuhe
gauntlets

8. Handhabung und Lagerung

Handling and storage

Handhabung: Die Batterie nicht öffnen, kurzschließen, zerquetschen oder zerlegen oder aus großer Höhe fallen lassen oder etwas anlöten.
Handling: *Do not open the battery. Do not crush, short-circuit, disassemble, drop or solder.*

Achtung: Falsche Handhabung kann zu einer Explosion führen oder einen Brand entfachen!
Caution: *Wrong handling can cause fire or explosion.*

Lagerung: Temperatur (empfohlener Bereich *): +15 °C bis +30 °C
Storage: Temperatur (sicherer Bereich): -40 °C bis +60 °C
 Luftfeuchtigkeit: 0 % bis 75 %
 Ein Kurzschluss kann einen Brand verursachen.
*Temperature (recommended range *): 59 °F to 86 °F*
Temperature (safe range): -40 °F to 140 °F
Humidity range: 0 % to 75 %
Short circuit can ransom burn.

* Lagerung außerhalb des empfohlenen Temperaturbereichs wirkt sich negativ auf die Lebensdauer der Zellen bzw. der Gesamtbatterie aus.

** Storage outside the recommended range has a negative effect on the life span of the cells and the total battery.*

9. Überwachen der gelagerten Waren und Schutzausrüstung
Exposure controls and personal protection

Maßnahmen unter Punkt 8 müssen eingehalten werden. Es muss somit regelmäßig geprüft werden, ob die Lagertemperatur innerhalb der vorgegebenen Grenzen liegt. Ebenso muss eine angemessene Durchlüftung gewährleistet sein, um Staunässe zu vermeiden.

Für den normalen Umgang mit den Batterien ist keine Schutzausrüstung erforderlich.

Advices under Point 8 must be observed. You have to check continuously that storage temperature is within the specified limits. Additionally, you have to ensure that there is a suitable ventilation in order to avoid water logging.

For normal use you don't need any protective equipment.

10. Physikalische Eigenschaften
Physical properties

Zustand <i>State</i>	fest <i>solid</i>
Geruch <i>Odor</i>	N/A
Dampfdruck <i>Vapor Pressure</i>	N/A
Wasserdampfdichte <i>Vapor Density</i>	N/A
Siedepunkt <i>Boiling Point</i>	N/A
Wasserlöslichkeit <i>Solubility in Water</i>	unlöslich <i>insoluble</i>
Spezifisches Gewicht <i>Specific Gravity</i>	N/A
Dichte <i>Density</i>	N/A

11. Stabilität und Reaktivität
Stability and reactivity

Durch lange Lagerung wird die Kapazität der Batterie reduziert und die voraussichtliche Funktionsdauer wird verkürzt.

During a long storage the capacity will be reduced and the lifespan of the battery will be shorter.

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12. Toxikologische Angaben

Toxicological information

Bei bestimmungsgemäßem Umgang treten keine gefährlichen Stoffe aus der Batterie aus und es kann somit zu keiner Berührung mit toxischen Stoffen kommen.

When used as specified, no hazardous substances escape from the battery and there can therefore be no contact with toxic substances.

13. Umweltspezifische Angaben

Ecological information

Bei bestimmungsgemäßem Umgang tritt keine Umweltschädigung durch die Batterie auf.

Sie muss jedoch nach dem Gebrauch gesondert entsorgt werden, da sie gefährliche Chemikalien enthält. Siehe Punkt 14.

When used as specified, the battery does not cause any environmental pollution.

If the battery is unusable, you must recycle it. See Point 14.

14. Hinweise zur Entsorgung

Disposal considerations

Eine Batterie ist Sondermüll.

Die Entsorgung der Batterie darf nur über ein zugelassenes Rücknahmesystem erfolgen.

Die Batterie darf auf keinen Fall über den Restmüll entsorgt werden.

Die Batterie sollte vor Entsorgung vollständig entladen werden.

The battery is hazardous waste.

It is not allowed to dispose it with common waste.

If the battery is unusable, dispose it according to applicable regulations.

The battery should be discharged fully prior to disposal.

15. Angaben zum Transport

Transportation information

15.1. UN 38.3 Test Zusammenfassung / *UN 38.3 Test Summary*

siehe Anhang A

refer Appendix A

15.2. UN-Nummer / *UN number*

UN 3480 oder UN 3481

UN 3480 or UN 3481

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15.3. Ordnungsgemäße UN-Versandbezeichnung / *UN proper shipping name*

UN3480:

ADR: LITHIUM-IONEN-BATTERIEN
LITHIUM ION BATTERIES

ICAO-TI/IATA-DGR: Lithium-Ionen-Batterien
Lithium ion batteries

UN 3481:

ADR: LITHIUM-IONEN-BATTERIEN IN AUSTRÜSTUNGEN
LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

oder / or

LITHIUM-IONEN-BATTERIEN, MIT AUSTRÜSTUNGEN
VERPACKT
LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

ICAO-TI/IATA-DGR: Lithium-Ionen-Batterien, in Ausrüstungen
Lithium ion batteries contained in equipment

oder / or

Lithium-Ionen-Batterien, mit Ausrüstungen verpackt
Lithium ion batteries packed with equipment

15.4. Transportgefahrenklasse / *Transport hazard class*

9 (Verschiedene gefährliche Stoffe und Gegenstände / *Miscellaneous*)

15.5. Verpackungsgruppe / *Packing group*

II (Stoffe mit mittlerer Gefahr / *Substances presenting medium danger*)

Anmerkung:

Zellen und Batterien, Zellen und Batterien in Ausrüstungen oder Zellen und Batterien mit Ausrüstungen verpackt, die Lithium in irgendeiner Form enthalten, müssen der UN-Nummer 3090, 3091, 3480 bzw. 3481 zugeordnet werden. Sie dürfen unter diesen Eintragungen befördert werden, wenn sie den folgenden Vorschriften entsprechen:

- jede Zelle und Batterie entspricht einem Typ, für den nachgewiesen wurde, dass er die Anforderungen aller Prüfungen des Handbuchs Prüfungen und Kriterien, Teil III, Unterabschnitt 38.3, erfüllt;
- jede Zelle und Batterie ist mit einer Schutzeinrichtung gegen inneren Überdruck versehen oder so ausgelegt, dass ein Gewaltbruch normalen Beförderungsbedingungen verhindert wird;

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- c. jede Zelle und Batterie ist mit einer wirksamen Vorrichtung zur Verhinderung äußerer Kurzschlüsse ausgerüstet;
- d. jede Batterie mit mehreren Zellen oder mit Zellen in Parallelschaltung ist mit wirksamen Einrichtungen ausgerüstet, die einen gefährlichen Rückstrom verhindern;
- e. Zellen und Batterien sind gemäß einem Qualitätssicherungsprogramm hergestellt, das Folgendes beinhaltet:
 - 1. eine Beschreibung der Organisationsstruktur und der Verantwortlichkeiten für das Personal in Bezug auf die Auslegung und Produktqualität;
 - 2. die entsprechenden Anweisungen, die für die Prüfung, die Qualitätskontrolle, die Qualitätssicherung und die Arbeitsabläufe verwendet werden;
 - 3. Prozesskontrollen, die entsprechende Aktivitäten zur Vorbeugung und Feststellung innerer Kurzschlussdefekte während der Herstellung von Zellen umfassen sollten;
 - 4. Qualitätsaufzeichnungen, wie Prüfberichte, Prüf- und Kalibrierungsdaten und Nachweise; Prüfdaten müssen aufbewahrt und der zuständigen Behörde auf Verlangen zur Verfügung gestellt werden;
 - 5. Überprüfungen durch die Geschäftsleitung, um die erfolgreiche Wirkungsweise des Qualitätssicherungsprogramms sicherzustellen;
 - 6. ein Verfahren für die Kontrolle der Dokumente und deren Überarbeitung;
 - 7. ein Mittel zur Kontrolle von Zellen und Batterien, die dem im Absatz a) geprüften Typ nicht entsprechen;
 - 8. Schulungsprogramme und Qualifizierungsverfahren für das betroffene Personal; und
 - 9. Verfahren um sicherzustellen, dass am Endprodukt keine Schäden vorhanden sind.

Note:

Cells and batteries, cells and batteries contained in equipment, or cells and batteries packed with equipment, containing lithium in any form shall be assigned to UN numbers 3090, 3091, 3480 or 3481 as appropriate. They may be carried under these entries if they meet the following provisions:

- a. *each cell or battery is of the type proved to meet the requirements of each test of the Manual of Test and Criteria, Part III, sub-section 38.3;*
- b. *each cell and battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage;*
- c. *each cell and battery is equipped with an effective means of preventing external short circuits;*
- d. *each battery containing cells or series of cells connected in parallel is equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.)*
- e. *cells and batteries shall be manufactured under a quality management program that includes:*
 - 1. *a description of the organizational structure and responsibilities of personnel with regard to design and product quality;*
 - 2. *the relevant inspection and test, quality control, quality assurance, and process operation instruction that will be used;*
 - 3. *process controls that should include relevant activities to prevent and detect internal short circuit failure during manufacture of cells;*
 - 4. *quality records, such as inspection reports, test data, calibration data and certificates. Test data shall be kept and made available to the competent authority upon request;*
 - 5. *management reviews to ensure the effective operation of the quality management program;*
 - 6. *a process for control of documents and their revision;*
 - 7. *a means of control of cells or batteries that are not conforming to the type tested as mentioned in (a) above;*
 - 8. *training programs and qualification procedures for relevant personnel; and*
 - 9. *procedures to ensure that there is no damage to the final product.*

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15.6. Verpackungsanweisung / Packing instruction

ADR:

UN 3480 P903
UN 3481 P903

ICAO-TI/IATA-DGR:

UN 3480 Verpackungsanweisung 965, Teil IA
Packing Instruction 965, Part IA

UN 3481 Verpackungsanweisung 966, Teil I
Packing Instruction 966, Part I

Verpackungsanweisung 967, Teil I
Packing Instruction 967, Part I

16. Vorschriften und Regelwerke *Regulatory information*

Hinweise auf Vorschriften zur Beförderung gefährlicher Güter:

Notes to regulations concerning the transport of hazardous goods:

- Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße (ADR)
European Agreement concerning the International Carriage of Dangerous Goods by Road
- International Civil Aviation Organization / Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO-TI)
- International Air Transport Association / Dangerous Goods Regulations (IATA-DGR)

17. Brandschutzklasse *Fire Protection Class*

Die Batterie muss gem. DIN 4102 in zwei Klassen eingestuft werden. Das Außengehäuse besitzt Brandschutzklasse A2 und die innenliegenden Module weisen die Brandschutzklasse B2 auf.

The battery must be classified acc. to DIN 4102 into two classes. The outer casing has fire protection class A2 and the internal modules fire protection class B2.

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18. Brandlasten

Fire Loads

Definition: Unter der Brandlast eines Gegenstandes versteht man die Energie, die bei dessen Verbrennung frei wird.

Die Brandlast einer Lithium-Ionen-Batterie für Flurförderzeuge hängt maßgeblich von den verwendeten Batteriezellen ab. Weitere Bestandteile, die zur Brandlast beitragen, sind darüber hinaus sonstige Teile aus diversen Kunststoffen wie PA (Polyamid), PU (Polyurethan) oder PP (Polypropylen) und ähnliche wie z.B. Trogdeckel, Moduldeckel, Gehäuseteile von Elektronikkomponenten oder Kabelummantelungen.

Es können folgende allgemeinen Annahmen getroffen werden:

Definition: The fire load of an object is the energy released during its combustion.

The fire load of a lithium-ion battery for industrial trucks depends largely on the battery cells used. Other components that contribute to the fire load also include other parts made of various plastics such as PA (polyamide), PU (polyurethane) or PP (polypropylene) and similar such as trough lid, module covers, housing parts of electronic components or cable shielding.

The following general assumptions can be made:

Masse und Material des Batteriedeckels: < 10 kg PUR/Baydur110 FR-N

Mass and material of the battery lid:

Masse und Material des Moduldeckels: < 0,4 kg PA66/6-FR

Mass and material of the module lid:

Masse und Material sonstiger Bauteile: < 9 kg PA66/6-FR

Mass and material of other components:

Vampamid 66

Bayblend FR3000/3040/3042

PA6 GF25/GF30

PA66 GF25

PC (Makrolon 5667)

Für das Material des Trogdeckels und des Moduldeckels liegen jeweils die Brandschutzklasse UL94-VO vor. Im Rahmen einer Worst Case Betrachtung ist jedoch für PU basierte Materialien von einem Brennwert von bis zu 10 kWh/kg (vergleichbar Erdöl) auszugehen.

Für die sonstigen Kunststoffteile im Inneren der Batterie wird pauschal mit bis zu 9 kg PA6/PA66 gerechnet. Für beide Werkstoffe gilt laut VDS ein Brennwert von bis zu 9 kWh/kg.

Für die verwendeten Zellen wurde ein Brennwertfaktor von 1.4 bezogen auf die elektrisch gespeicherte Energiemenge ermittelt (siehe Dokument-ID KBSRD-327645963-212).

The material of the trough lid and the module lid each have the fire protection class UL94-VO. In a worst-case scenario, however, a calorific value of up to 10 kWh/kg (comparable to petroleum) can be assumed for PU-based materials.

For the other plastic parts inside the battery, a flat rate of up to 9 kg PA6/PA66 is calculated. According to the VDS, both materials have a calorific value of up to 9 kWh/kg.

For the cells used calorific factor of 1.4 in relation to the amount of energy stored electrically has been determined (refer Dokument-ID KBSRD-327645963-212).

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Damit ergeben sich die nachfolgenden Brennwerte:
This results in the following calorific values:

B-P/N	Brennwert Calorific Value			
	Zellen Cells	Deckel Batterie und Module Lid Battery and Modules	Sonstige Kunststoffe other Plastics	Gesamt Total
	[kWh]	[kWh]	[kWh]	[kWh]
xxxxxx0117xxx	25.6	116	81	222.6
xxxxxx0119xxx	38.4	124	81	243.4
xxxxxx0120xxx	38.4	124	81	243.4
xxxxxx0121xxx	63.8	140	81	284.8
xxxxxx0122xxx	63.8	140	81	284.8
xxxxxx0217xxx	25.6	116	81	222.6
xxxxxx0219xxx	38.4	124	81	243.4
xxxxxx0220xxx	38.4	124	81	243.4
xxxxxx0221xxx	63.8	140	81	284.8
xxxxxx0222xxx	63.8	140	81	284.8
xxxxxx0317xxx	25.6	116	81	222.6
xxxxxx0319xxx	38.4	124	81	243.4
Xxxxxx0320xxx	38.4	124	81	243.4
Xxxxxx0321xxx	63.8	140	81	284.8
Xxxxxx0322xxx	63.8	140	81	284.8
Xxxxxx0917xxx	25.6	116	81	222.6
Xxxxxx0919xxx	38.4	124	81	243.4
xxxxxx0920xxx	38.4	124	81	243.4
xxxxxx0921xxx	63.8	140	81	284.8
xxxxxx0922xxx	63.8	140	81	284.8
Xxxxxx1317xxx	19.2	112	81	212.2
Xxxxxx1417xxx	38.4	124	81	243.4
Xxxxxx1418xxx	38.4	124	81	243.4
Xxxxxx1419xxx	51.1	132	81	264.1
Xxxxxx1420xxx	51.1	132	81	264.1
Xxxxxx1517xxx	38.4	124	81	243.4
Xxxxxx1518xxx	38.4	124	81	243.4
Xxxxxx1519xxx	51.1	132	81	264.1
Xxxxxx1520xxx	51.1	132	81	264.1
Xxxxxx0517xxx	47.7	132	81	260.7
Xxxxxx0519xxx	71.5	148	81	300.5
Xxxxxx0520xxx	71.5	148	81	300.5
Xxxxxx0521xx	119.3	180	81	380.3
Xxxxxx0522xxx	119.3	180	81	380.3
Xxxxxx0617xxx	47.7	132	81	260.7
Xxxxxx0619xxx	71.5	148	81	300.5
Xxxxxx0620xxx	71.5	148	81	300.5
Xxxxxx0621xxx	119.3	180	81	380.3
Xxxxxx0622xxx	119.3	180	81	380.3

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Xxxxxx0717xxx	59.6	140	81	280.6
Xxxxxx0719xxx	95.5	164	81	340.5
Xxxxxx0720xxx	95.5	164	81	340.5
Xxxxxx0721xxx	167.0	212	81	460
Xxxxxx0722xxx	167.0	212	81	460
Xxxxxx0723xxx	107.4	172	81	360.4
Xxxxxx0724xxx	107.4	172	81	360.4
Xxxxxx0725xxx	167.0	212	81	460
Xxxxxx0726xxx	167.0	212	81	460
Xxxxxx1017xxx	59.6	140	81	280.6
Xxxxxx1019xxx	95.5	164	81	340.5
Xxxxxx1020xxx	95.5	164	81	340.5
Xxxxxx1021xxx	143.1	196	81	420.1
Xxxxxx1022xxx	143.1	196	81	420.1
Xxxxxx1119xxx	47.7	132	81	260.7
Xxxxxx1120xxx	47.7	132	81	260.7

19. Mögliche Fehlerzustände und deren Handhabung

Potential failure modes and their handling

Mögliche Fehlerzustände (Batterie nicht funktionsfähig und Fahren nicht möglich):

Possible error conditions (Battery without function and driving is not possible):

1. Batterie funktioniert nicht und zeigt keine Fehlermeldung.
Battery does not work and shows no error message.
2. Batterie funktioniert nicht und zeigt eine Fehlermeldung.
Battery does not work and shows an error message.
3. Batterie gast gerade ab.
Battery is blowing out.
4. Batterie hat abgegast.
Battery has blown out.
5. Batterie wird unverhältnismäßig warm (über 80 °C) und zeigt einen Fehler.
Battery is getting disproportionately warm (176 °F plus) and shows an error.
6. Batterie brennt.
Battery burns.

Mögliche Maßnahmen:

Possible measures:

- A. Batterie kann noch bewegt werden.
Battery can be moved.
- B. Batterie kann noch mit zusätzlichen Maßnahmen oder durch speziell geschultes Personal bewegt werden.
Battery can be moved implementing additional measures or by specially trained personnel
- C. Batterie kann noch mit zusätzlichen Maßnahmen oder durch speziell geschultes Personal bewegt werden, um die Batterie in einen sicheren Bereich (außerhalb von Gebäuden, mind. 5 m Abstand zu Gebäudewänden) zu bewegen.
Battery can be moved implementing additional measures or by specially trained personnel to move the battery to a safe area (outside and min. 5 meters away from the wall).
- D. Batterie vor Ort kühlen, d.h. die Außenseiten des Troges mit Wasser kühlen.
Cool down the battery on-site. Namely, cool down lateral surface of the battery with water.
- E. Batterie vor Ort mit Feuerlöscher der Brandklasse A/B/C (s. Kap. 6) löschen.
Extinguish fire by using extinguishers with fire class A/B/C (see para. 6) on-site.

Handhabungsmatrix bei Fehlerzuständen:

Handling matrix for error states:

	1	2	3	4	5	6
A	X					
B		X				
C			X	X		
D					X	X
E						X

20. Erklärung über Gasaustritt

Declaration of gas leakage

KBS bestätigt hiermit, dass das oben genannte Produkt im bestimmungsgemäßen Betrieb keinen Gasaustritt aufweist.

KBS confirms for above product that no gases are released during operation in accordance with the intended use.

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21. Sonstige Angaben

Other Information

Dieses Produkt-Informationsblatt wird ausschließlich als Informationsdokument zur Unterstützung unserer Kunden bereitgestellt. Es wurde nach bestem Wissen und Gewissen sorgfältig zusammengestellt.

Gemäß der REACH-Verordnung (EC 1907/2006, Art. 31) und der OSHA-Verordnung (29 CFR 1910.1200) unterliegen Batterien nicht der gesetzlichen Verpflichtung, ein Sicherheitsdatenblatt zu erstellen und bereitzustellen.

KBS schließt jegliche Gewährleistung auf die Genauigkeit, Zuverlässigkeit und Vollständigkeit der aufgeführten Informationen aus! Es liegt in der Verantwortung des Anwenders die Angemessenheit und Vollständigkeit dieser Informationen in Bezug auf seinen besonderen Verwendungszweck zu prüfen.

This Product Information Sheet is provided solely as an informational document for the purpose of assisting our customers. It has been accurately compiled to the best of our knowledge and belief.

According to REACH regulation (EC 1907/2006, Art 31) and to OSHA regulation (29 CFR 1910.1200) batteries are not covered by legal requirements to generate and supply an SDS or an MSDS.

However, KBS excludes any warranty for the accuracy, reliability or completeness of the information contained in this document. It is the user's own responsibility to check the given information in terms of suitability and completeness for his particular use.

Karlstein, 24.04.2025

EU Konformitätserklärung**1) Produkt**

Sekundäre Industriebatterie zur Verwendung in Flurförderzeugen

2) Erzeuger/Hersteller

KION Battery Systems GmbH

Zeche Gustav 1, Unit 3 63791 Karlstein am Main Germany

E-Mail: info@kion-batterysystems.com

3) Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Erzeugers/Herstellers ausgestellt.

4) Gegenstand der Erklärung

Batterien mit B-P/N Bezeichnung im Format xxxxxxxnnnnxxx, wobei nnnn =

0117,0119,0120,0121,0122,0217,0219,0220,0221,0222,0317,0319,0320,0321,0322,0917,0919,
0920,0921,0922,1317,1418,1419,1420,1518,1519,1520,0517,0519,0520,0521,0522,0617,0619,
0620,0621,0622,0717,0719,0720,0721,0722,0723,0724,0725,0726,1017,1019,1020,1021,1022,
1119,1120

5) Der Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union

- 2011/65/EU RoHS-Richtlinie
- 2014/30/EU EMV-Richtlinie
- 2014/35/EU Niederspannungsrichtlinie 2023/1542/EU Batterieverordnung

6) Harmonisierte Normen oder Spezifikationen, die zugrunde gelegt wurden, für die die Konformität erklärt wird

- UN 38.3 Transportation (including amendments)
- DIN EN 12895
- EN 61000-6-4
- EN 62619
- DIN EN 60529

jeweils in der zum Zeitpunkt der erstmaligen Herstellung gültigen Fassung.

Unterzeichnet für und im Namen von
KION Battery Systems

Karlstein, 24.4.2025



☒ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director

Die Rechte und Pflichten aus dieser Erklärung können durch zusätzliche vertragliche Rahmenbedingungen zwischen Inverkehrbringer, Hersteller und Produzent separat geregelt sein.

EU Declaration of Conformity**1) Product**

Rechargeable industrial Battery for use in industrial truck

2) Manufacturer

KION Battery Systems GmbH

Zeche Gustav 1, Unit 3 63791 Karlstein am Main Germany

E-Mail: info@kion-batterysystems.com

3) This declaration of conformity is issued under the sole responsibility of the manufacturer.

4) Object of the declaration

Batteries with B-P/N identifier in the format xxxxxxnnnnxxx, where nnnn =

0117,0119,0120,0121,0122,0217,0219,0220,0221,0222,0317,0319,0320,0321,0322,0917,0919,
0920,0921,0922,1317,1417,1418,1419,1420,1517,1518,1519,1520,0517,0519,0520,0521,0522,
0617,0619,0620,0621,0622,0717,0719,0720,0721,0722,0723,0724,0725,0726,1017,1019,1020,
1021,1022,1119,1120

5) The object of the declaration described in point 4 is in conformity with the relevant Union harmonisation legislation:

- 2011/65/EU RoHS- Directive
- 2014/30/EU EMC-Directive
- 2014/35/EU Low Voltage Directive
- 2023/1542/EU Battery Regulation

6) References to the relevant harmonised standards or the common specifications used or references to the other technical specifications in relation to which conformity is declared:

- UN 38.3 Transportation (including amendments)
- DIN EN 12895
- EN 61000-6-4
- EN 62619
- DIN EN 60529

each in the applicable version at point of time of first date of manufacturing

Signed for and behalf of
KION Battery Systems

Karlstein, 24.4.2025



☒ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director

The rights and obligations arising from this declaration may be regulated separately by additional contractual framework conditions between the distributor, manufacturer and producer.

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 1.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0117xxx

Technology (i): Lithium Ion

Mass (ii): 708kg

Watt hour rating (iii): 16470 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

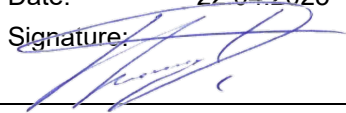
Physical description (iv): Rechargeable lithium-ion battery composed of 4 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 1.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0119xxx

Technology (i): Lithium Ion

Mass (ii): 708 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

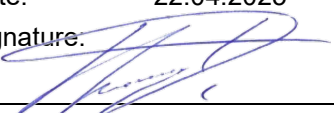
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 1.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0120xxx

Technology (i): Lithium Ion

Mass (ii): 708 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

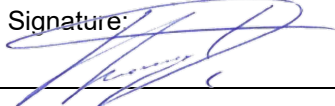
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 1.21**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0121xxx

Technology (i): Lithium Ion

Mass (ii): 708 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

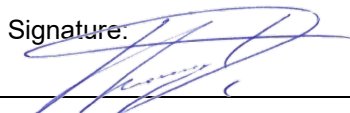
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 1.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0122xxx

Technology (i): Lithium Ion

Mass (ii): 708 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

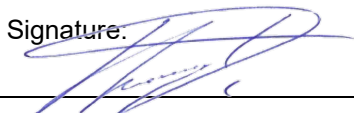
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 2.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 16470 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

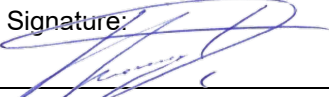
Physical description (iv): Rechargeable lithium-ion battery composed of 4 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

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: 22.04.2025

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]:

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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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 2.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
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(2) Batteryuniversity GmbH, Am Sportplatz 30, 63791 Karlstein am Main,
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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

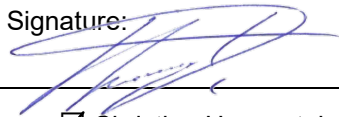
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 2.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

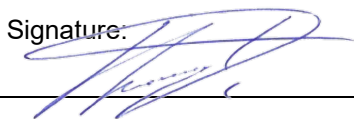
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 2.21**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, 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: 22.04.2025

Signature:

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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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 2.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

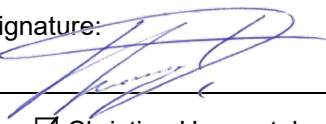
List of Tests conducted [g]:

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: 22.04.2025

Signature:


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

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E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 3.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 16470 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 4 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

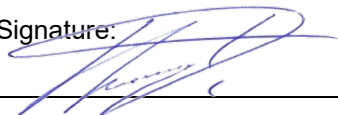
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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Phone: +49 (0)6188 9929-0

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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

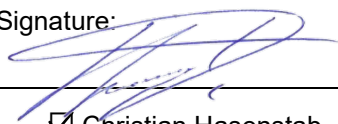
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 3.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

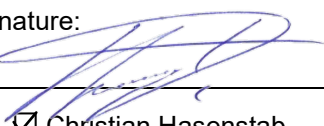
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

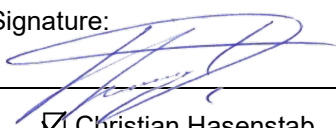
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 3.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0322xxx

Technology (i): Lithium Ion

Mass (ii): 856 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

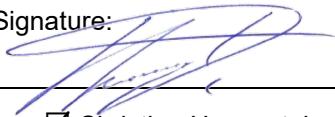
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 9.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0917xxx

Technology (i): Lithium Ion

Mass (ii): 1013 kg

Watt hour rating (iii): 16470 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 4 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

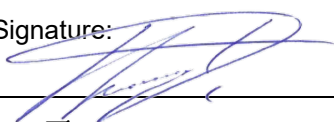
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 9.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0919xxx

Technology (i): Lithium Ion

Mass (ii): 1013 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 6 parallel modules, 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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 9.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0920xxx

Technology (i): Lithium Ion

Mass (ii): 1013 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

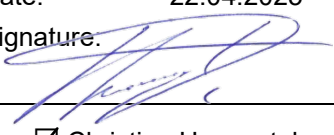
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 9.21**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1013 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

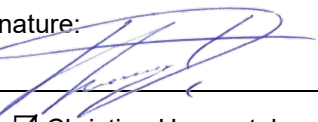
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 9.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx0922xxx

Technology (i): Lithium Ion

Mass (ii): 1013 kg

Watt hour rating (iii): 41040 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 10 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

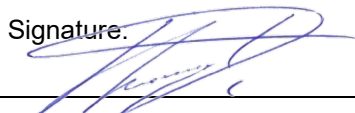
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 13.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx1317xxx

Technology (i): Lithium Ion

Mass (ii): 750 kg

Watt hour rating (iii): 12300 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 3 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

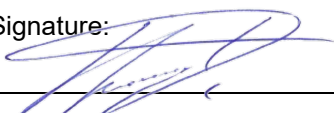
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 14.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx1417xxx

Technology (i): Lithium Ion

Mass (ii): 939 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

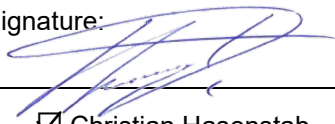
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 14.18**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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,
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Technology (i): Lithium Ion

Mass (ii): 939 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

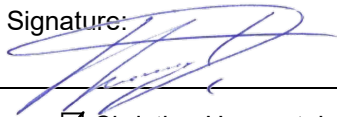
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 14.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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,
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Technology (i): Lithium Ion

Mass (ii): 939 kg

Watt hour rating (iii): 32850 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 8 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

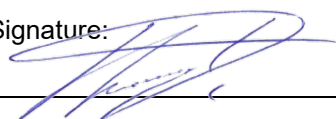
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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Managing Director

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

Manufacturer [a], [b]:

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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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 14.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx1420xxx

Technology (i): Lithium Ion

Mass (ii): 939 kg

Watt hour rating (iii): 32850 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 8 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

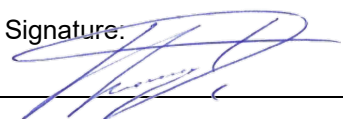
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 15.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1119 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

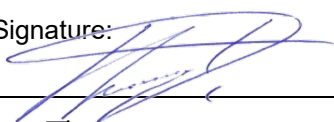
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 15.18**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx1518xxx

Technology (i): Lithium Ion

Mass (ii): 1119 kg

Watt hour rating (iii): 24660 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

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

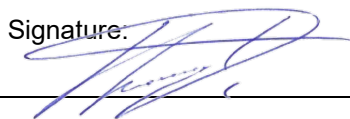
List of Tests conducted [g]:

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: 22.04.2025

Signature:

☒ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director

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Manufacturer [a], [b]:

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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 15.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 02/10/2024, (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]:** xxxxxx1519xxx

Technology (i): Lithium Ion

Mass (ii): 1119 kg

Watt hour rating (iii): 32850 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 8 parallel modules, each consisting of 15 serial strings of CB5Q0 cells

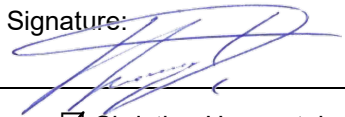
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 15.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202410093-B1 (KBSRD-1143737296-15417),
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Technology (i): Lithium Ion

Mass (ii): 1119 kg

Watt hour rating (iii): 32850 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 8 parallel modules, 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: 22.04.2025

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) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 5.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1210 kg

Watt hour rating (iii): 30690 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 4 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

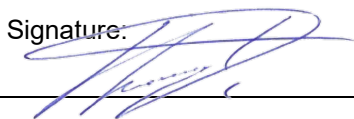
List of Tests conducted [g]:

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: 22.04.2025

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

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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 5.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
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Technology (i): Lithium Ion

Mass (ii): 1210 kg

Watt hour rating (iii): 45990 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 6 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

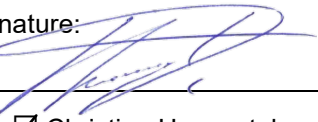
List of Tests conducted [g]:

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: 22.04.2025

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

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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 5.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1210 kg

Watt hour rating (iii): 45990 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 6 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

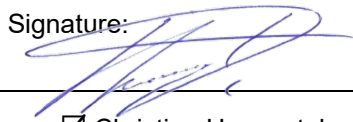
List of Tests conducted [g]:

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: 22.04.2025

Signature:


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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 5.21**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
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Technology (i): Lithium Ion

Mass (ii): 1210 kg

Watt hour rating (iii): 76680 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 10 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

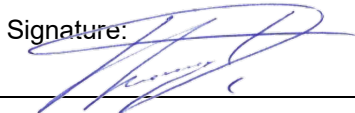
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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

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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 5.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
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Technology (i): Lithium Ion

Mass (ii): 1210 kg

Watt hour rating (iii): 76680 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 10 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

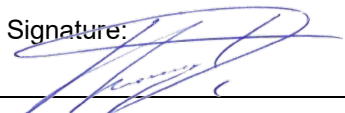
List of Tests conducted [g]:

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: 22.04.2025

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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) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 6.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx0617xxx

Technology (i): Lithium Ion

Mass (ii): 1558 kg

Watt hour rating (iii): 30690 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 4 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

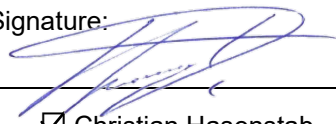
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 6.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1558 kg

Watt hour rating (iii): 45990 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 6 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

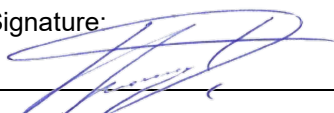
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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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) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 6.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
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Technology (i): Lithium Ion

Mass (ii): 1558 kg

Watt hour rating (iii): 45990 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 6 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

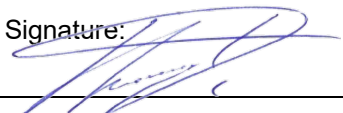
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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Manufacturer [a], [b]:

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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) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 6.21**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1558 kg

Watt hour rating (iii): 76680 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 10 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

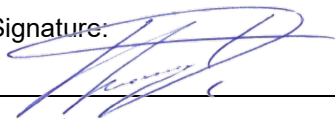
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 6.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx0622xxx

Technology (i): Lithium Ion

Mass (ii): 1558 kg

Watt hour rating (iii): 76680 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 10 parallel modules, 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: 22.04.2025

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) BG6.22, (2) 14S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx0717xxx

Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 38340 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 5 parallel modules, 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: 22.04.2025

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]:

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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) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 61380 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 8 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

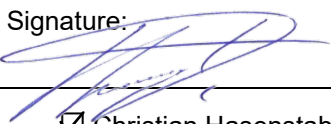
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx0720xxx

Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 61380 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 8 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

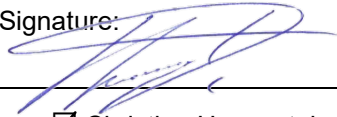
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.21**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
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Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 107370 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 14 parallel modules, 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: 22.04.2025

Signature:

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E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 107370 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 14 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

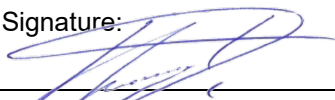
List of Tests conducted [g]:

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: 22.04.2025

Signature:

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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) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.23**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx0723xxx

Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 69030 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 9 parallel modules, 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: 22.04.2025

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) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.24**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx0724xxx

Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 69030 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 9 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

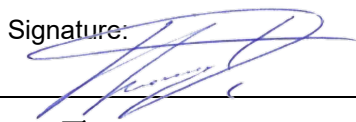
List of Tests conducted [g]:

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: 22.04.2025

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) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.25**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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,
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Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 107370 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 14 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

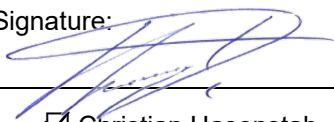
List of Tests conducted [g]:

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: 22.04.2025

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) BG7.26, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 7.26**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG7.26 (KBSRD-648909649-56108), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx0726xxx

Technology (i): Lithium Ion

Mass (ii): 2178 kg

Watt hour rating (iii): 107370 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 14 parallel modules, 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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 10.17**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx1017xxx

Technology (i): Lithium Ion

Mass (ii): 1458 kg

Watt hour rating (iii): 38340 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 5 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

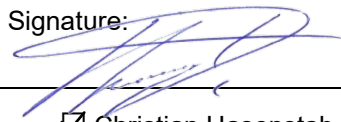
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 10.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx1019xxx

Technology (i): Lithium Ion

Mass (ii): 1458 kg

Watt hour rating (iii): 61380 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 6 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

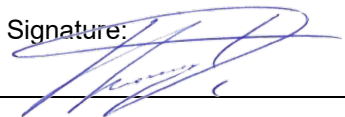
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 10.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx1020xxx

Technology (i): Lithium Ion

Mass (ii): 1458 kg

Watt hour rating (iii): 61380 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 6 parallel modules, 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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 10.21**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336), (3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx1021xxx

Technology (i): Lithium Ion

Mass (ii): 1458 kg

Watt hour rating (iii): 91980 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 10 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

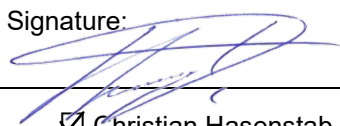
List of Tests conducted [g]:

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: 22.04.2025

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]:

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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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 10.22**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1458 kg

Watt hour rating (iii): 91980 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 10 parallel modules, 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: 22.04.2025

Signature:

☒ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director

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Manufacturer [a], [b]:

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Phone: +49 (0)6188 9929-0

E-Mail: info@kion-batterysystems.com**Tested P/N [f] (v):** (1) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 11.19**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (3) 29/12/2022**Test Laboratory [c]:** (1) STZ Energieeffiziente Leistungselektronik für elektrische Antriebe und Speicher, HS Aschaffenburg, Birnbaumweg 18, 63741 Aschaffenburg,
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Technology (i): Lithium Ion

Mass (ii): 1238 kg

Watt hour rating (iii): 30690 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 4 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

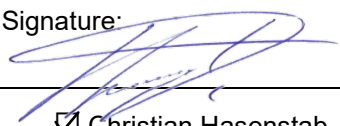
List of Tests conducted [g]:

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: 22.04.2025

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) BG6.22, (2) 15S1P CATL FeLiX (mH), (3) CB5Q0 3.22V 94.5Ah 304.29Wh**Qualified type P/N [f] (v):** BG 11.20**Test report reference (ID) [d]:** (1) TESTREPORT_UN38.3_BG6.22 (KBSRD-648909649-56107), (2) BU-202400077-B1 (KBSRD-1143737296-14336),
(3) RZUN2022-5793 (KBSRD-280930386-67555)**Test report date [e]:** (1) 16/05/2023, (2) 08/05/2024, (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]:** xxxxxx1120xxx

Technology (i): Lithium Ion

Mass (ii): 1238 kg

Watt hour rating (iii): 30690 Wh (*useable Watt hour rating, equivalent to 90 % of installed energy)

Physical description (iv): Rechargeable lithium-ion battery composed of 2 serial strings composed of 4 parallel modules, each consisting of 14 serial strings of CB5Q0 cells

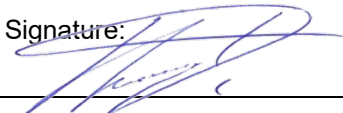
List of Tests conducted [g]:

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: 22.04.2025

Signature:

☒ Christian Hasenstab - or - ☐ Wolfgang Klüpfel
Managing Director