



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Allgemeine Betriebserlaubnis (ABE) National Type Approval

ausgestellt von:

Kraftfahrt-Bundesamt (KBA)

nach § 20 der Straßenverkehrs-Zulassungsordnung (StVZO) in der Fassung vom 26.04.2012 (BGBl I S. 679) für einen Typ des folgenden Genehmigungsobjektes

Elektrokleinstfahrzeug

issued by:

Kraftfahrt-Bundesamt (KBA)

according to § 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO) in the version of April 26, 2012 (BGBl I S. 679) for a type of the following approval object

Small electric vehicle

Genehmigungsnummer: **P605*00**

Approval number:

1. Genehmigungsinhaber:
Holder of the approval:
BLC Poland SP.Z O.O
PL-05-830 KAJETANY NADARZYN
2. Name und Anschrift des Bevollmächtigten (gegebenenfalls):
Name and address of representative (if any):
Entfällt
Not applicable
3. Name und Anschrift des Herstellers:
Manufacturer's name and address:
BLC Poland SP.Z O.O
PL-05-830 KAJETANY NADARZYN
4. Typbezeichnung:
Type:
G2Pro
5. Zuständiger Technischer Dienst:
Responsible Technical Service:
TÜV Rheinland Kraftfahrt GmbH
DE-51105 Köln



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **P605*00**

Approval number:

6. Datum des Gutachtens des Technischen Dienstes:
Date of test report issued by the Technical Service:
23.12.2025
7. Nummer des Gutachtens des Technischen Dienstes:
Number of test report issued by that Technical Service:
87-eKFV-3085/25-00

8. Ausnahmegenehmigungen nach § 70 StVZO:
Exceptions according to § 70 StVZO:
Entfällt
Not applicable

9. Auflagen:
Conditions:
Siehe Typbeschreibung zum Gutachten, Punkt 13.2.
See type description of the test report, point 13.2.

Für jedes Fahrzeug, das dem genehmigten Typ entspricht, ist eine Datenbestätigung gemäß Muster 2d der StVZO auszustellen und dem Fahrzeug mitzugeben.

A data confirmation in accordance with model 2d of the StVZO has to be issued for each vehicle that corresponds to the approved type and has to be given with the vehicle.

10. Die Genehmigung wird **erteilt**
Approval is **granted**
11. Grund (Gründe) für die Erweiterung der Genehmigung (gegebenenfalls):
Reason(s) for the extension (if any):
Entfällt
Not applicable
12. Bemerkungen:
Remarks:
Das Fahrzeug ist ein Elektrokleinstfahrzeug gemäß § 1 der Elektrokleinstfahrzeuge-Verordnung (eKFV).
The vehicle is a small electric vehicle according to § 1 of Elektrokleinstfahrzeuge-Verordnung (eKFV).



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Genehmigungsnummer: **P605*00**

Approval number:

13. Ort: **DE-24932 Flensburg**
Place:

14. Datum: **06.02.2026**
Date:

15. Unterschrift: **Im Auftrag**
Signature:

Matthias Mügge



Anlagen:

Enclosures:

Gemäß Inhaltsverzeichnis

According to index



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Inhaltsverzeichnis zu den Beschreibungsunterlagen Index to the information package

Nummer der Genehmigung: **P605*00**
Approval No.

Ausgabedatum: **06.02.2026**
Date of issue:

letztes Änderungsdatum: --
last date of amendment:

Nebenbestimmungen und Rechtsbehelfsbelehrung
Collateral clauses and instruction on right to appeal

Prüfbericht(e) Nr.:
Test report(s) No.:
87-eKFV-3085/25-00

Datum:
Date
23.12.2025

Beschreibungsbogen Nr.:
Information document No.:
Entfällt
Not applicable

Datum:
Date

Liste der Änderungen:
List of modifications:
Entfällt
Not applicable

Datum:
Date



Kraftfahrt-Bundesamt

DE-24932 Flensburg

Nummer der Genehmigung: **P605*00**

- Anlage -

Nebenbestimmungen und Rechtsbehelfsbelehrung

Nebenbestimmungen

Jede Einrichtung, die dem genehmigten Typ entspricht, ist gemäß der angewendeten Vorschrift zu kennzeichnen.

Die Einzelerzeugnisse der reihenweisen Fertigung müssen mit den Genehmigungsunterlagen genau übereinstimmen. Änderungen an den Einzelerzeugnissen sind nur mit ausdrücklicher Zustimmung des Kraftfahrt-Bundesamtes gestattet.

Änderungen der Firmenbezeichnung, der Anschrift und der Fertigungsstätten sowie eines bei der Erteilung der Genehmigung benannten Zustellungsbevollmächtigten oder bevollmächtigten Vertreters sind dem Kraftfahrt-Bundesamt unverzüglich mitzuteilen.

Verstöße gegen diese Bestimmungen können zum Widerruf der Genehmigung führen und können überdies strafrechtlich verfolgt werden.

Die Genehmigung erlischt, wenn sie zurückgegeben oder entzogen wird, oder der genehmigte Typ den Rechtsvorschriften nicht mehr entspricht. Der Widerruf kann ausgesprochen werden, wenn die für die Erteilung und den Bestand der Genehmigung geforderten Voraussetzungen nicht mehr bestehen, wenn der Genehmigungsinhaber gegen die mit der Genehmigung verbundenen Pflichten - auch soweit sie sich aus den zu dieser Genehmigung zugeordneten besonderen Auflagen ergeben - verstößt oder wenn sich herausstellt, dass der genehmigte Typ den Erfordernissen der Verkehrssicherheit oder des Umweltschutzes nicht entspricht.

Das Kraftfahrt-Bundesamt kann jederzeit die ordnungsgemäße Ausübung der durch diese Genehmigung verliehenen Befugnisse, insbesondere die genehmigungsgerechte Fertigung sowie die Maßnahmen zur Übereinstimmung der Produktion, nachprüfen. Es kann zu diesem Zweck Proben entnehmen oder entnehmen lassen. Dem Kraftfahrt-Bundesamt und/oder seinen Beauftragten ist ungehinderter Zutritt zu Produktions- und Lagerstätten zu gewähren.

Die mit der Erteilung der Genehmigung verliehenen Befugnisse sind nicht übertragbar. Schutzrechte Dritter werden durch diese Genehmigung nicht berührt.

Rechtsbehelfsbelehrung

Gegen diese Genehmigung kann innerhalb eines Monats nach Bekanntgabe Widerspruch erhoben werden. Der Widerspruch ist beim **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg**, schriftlich oder zur Niederschrift einzulegen.



Kraftfahrt-Bundesamt

DE-24932 Flensburg

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Approval No.: **P605*00**

- Attachment -

Collateral clauses and instruction on right to appeal

Collateral clauses

All equipment which corresponds to the approved type is to be identified according to the applied regulation.

The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Kraftfahrt-Bundesamt.

Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorised representative named when the approval was granted is to be immediately disclosed to the Kraftfahrt-Bundesamt.

Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The Kraftfahrt-Bundesamt may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the Kraftfahrt-Bundesamt may get unhindered access to the production and storage facilities.

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg.**

zur Erteilung (☒) einer Allgemeinen Betriebserlaubnis (ABE)
() eines Nachtrags zur ABE Nr.
nach § 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO)

Fahrzeugart / category	: Elektrokleinstfahrzeug bis max. 500 Watt
Typ / type	: G2Pro
Antragsteller / applicant	: BLC Poland SP.Z O.O
	ul. Brzozowa, No. 42a, 05-830 Kajetany Nadarzyn, Poland

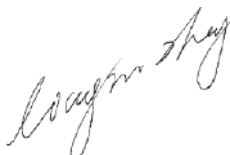
1. Der genannte Fahrzeugtyp wird von der Fa. *Jinhua Feimi Intelligent Technology Co., Ltd.* mit Sitz in *No.14, Mudan South Road, Baiyang Street, Wuyi county, Jinhua city, Zhejiang province, China* gefertigt.
2. (☒) Der Antragsteller ermöglicht aufgrund
 - (☒) von technischen Fachkräften, Fertigungsanlagen und Kontrolleinrichtungen eine gleichmäßige, reihenweise Fertigung von
 - () eigener Fachkunde, von technischen Fachkräften und Kontrolleinrichtungen eine erlaubnisgerechte Auslieferung von gleichmäßig und reihenweise gefertigten Fahrzeugen des in der Typbeschreibung festgelegten Fahrzeugtyps.
 - () Die Eignung des Antragstellers konnte noch nicht beurteilt werden.

Tatsachen, die die Zuverlässigkeit des Antragstellers im Sinne des § 20 StVZO in Frage stellen, sind (☒) hier nicht bekannt.

() dem beigefügten Schreiben vom TT.MM.JJJJ zu entnehmen.
3. Die beigefügte Typbeschreibung besteht aus Blatt 1 bis 14 und ist (☒) mit den darin unter Nr. 13.3. angegebenen Anlagen Bestandteil des Gutachtens.
4. Der Fahrzeugtyp entspricht der vollständigen Typbeschreibung und genügt den heute gültigen Bestimmungen
 - (☒) der StVZO in Verbindung mit eKFV.
 - () der Verordnung über den Betrieb von Kraftfahrunternehmen im Personenverkehr (BOKraft).
 - (☒) den hierzu vom Bundesminister für Verkehr erlassenen heute gültigen Anweisungen und Richtlinien.
 - () den in den herangezogenen ABG und ABE für Fahrzeugteile ggf. enthaltenen Auflagen.
 - () bis auf die unter Nr. 13.1. der Typbeschreibung beschriebene(n) Abweichung(en).
5. Der Erteilung (☒) einer ABE
 - () eines Nachtrags zur o.a. ABE
 - () und der Genehmigung der aufgrund der unter Nr. 13.1. der beigefügten Typbeschreibung beschriebenen Abweichung(en) ggf. erforderlichen Ausnahme(n)
 - (☒) bei Einhaltung der unter Nr. 13.2. der beigefügten Typbeschreibung vorgeschlagenen Auflage(n) stehen technische Bedenken nicht entgegen.

Der technische Dienst ist für die angewendeten Prüfverfahren vom Kraftfahrt-Bundesamt für das nationale Typgenehmigungsverfahren anerkannt.

Shanghai, 2025-12-23



B.Eng. Liangjun Zhang
Sachverständiger Technischer Dienst
Expert Technical Service

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O**0. Allgemeines / general**

- 0.1. Fahrzeughersteller / *vehicle manufacturer* : BLC Poland SP.Z O.O
ul. Brzozowa, No. 42a, 05-830 Kajetany Nadarzyn, Poland
- 0.2. Fahrzeug- und Aufbauart / *kind of vehicle and structure* : Elektrokleinstfahrzeug bis max. 500 Watt /
Small electric vehicle up to max. 500 Watt
- Fahrzeugklasse / *vehicle category*: 27
Art des Aufbaus / *kind of structure*: 0003
- 0.3. Typ / *type* : G2Pro
- 0.4. Handelsbezeichnung / *commercial description* : *KuKirin G2 Pro*
- 0.5. Ort und Art der Anbringung des Fabrikschildes und der Fahrzeug-Identifizierungsnummer / *location and method of affixing the identification plate and vehicle identification no.*
- 0.5.0. Genehmigung oder Prüfung / *approval or test* : Prüfung gem. / *test acc. to*
§ 2 (1) Nr. 3 eKFV i.V.m. § 59 StVZO
- Anforderungen erfüllt / *requirements fulfilled*
- 0.5.1. Fabrikschild / *identification plate* : vorne rechts am Rahmen, laser-graviert / *front right on the frame, laser engraved*
- 0.5.2. Fahrzeug-Identifizierungsnummer / *vehicle identification number* : vorne rechts am Rahmen, als Teil des Fabrikschildes, laser-graviert / *front right on frame, as part of the identification plate, laser engraved*
- 0.6. Fahrzeug-Identifizierungsnummer und deren Aufbau / *vehicle identification number and its structure* : ES G2PR 25 09 0001
- | Stelle / <i>digit</i> | Beschreibung / <i>description</i> | Wert / <i>value</i> |
|-----------------------|--|---------------------------|
| 1 - 2 | Fahrzeugklasse / <i>vehicle category</i> | ES=Electric scooter |
| 3 - 6 | Modelle / <i>model</i> | G2PR=G2 Pro |
| 7 - 8 | Jahr / <i>year</i> | 25 = 2025, 26 = 2026, ... |
| 9 - 10 | Monat / <i>month</i> | 01-12: Jan-Dec |
| 11 - 14 | Rahmennr. / <i>Serial number</i> | 0001 |
- 0.7. Ort der Anbringung der Kennzeichnung der Antriebsmaschine / *location of affixing of the engine code* : auf Motorgehäuse/ *on motor housing*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

0.8. Ort der Anbringung der ECE- : entfällt / *not applicable*
 Genehmigungszeichen / *location of*
affixing the ECE approval mark

1. **Änderungen, Ausführungen, wahlweise Ausrüstungen, Rüstzustände /** ***changes, versions, options, equipments***

1.1. **Änderungen / *changes***

Es wird berichtigt / *correction of* : entfällt / *not applicable*

Es wird geändert / *modification of* : entfällt / *not applicable*

Es wird hinzugefügt / *addition of* : entfällt / *not applicable*

Es entfällt / *deletion of* : entfällt / *not applicable*

Bemerkung / *remark* : entfällt / *not applicable*

1.2. **Ausführungen (Varianten) / *models*** : entfällt / *not applicable*
(variants)

1.3. **wahlweise Ausrüstungen** : entfällt / *not applicable*
(Versionen) / optional equipment
(versions)

2. **Hauptabmessungen und Gewichte / *main dimensions and weights***

2.1. **Hauptabmessung in mm / *main*** ***dimensions in mm***

2.1.0. Genehmigung oder Prüfung / *approval* : Prüfung gem. / *test acc. to* § 1 (1) Nr. 4 eKFV
 or *test*
 Anforderungen erfüllt / *requirements fulfilled*

2.1.1. Länge / *length* : 1170 mm

2.1.2. Breite / *width* : 590 mm

2.1.3. Höhe / *height* : 1225-1345 mm

2.1.4. Radstand / *wheelbase* : 921 mm

2.1.5. Höhe der Lenkstange / *height of steer-* : 920-1030 mm
ing rod

2.1.9. Weitere Angaben / *further* : keine / *none*
informations

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O**2.2. Gewichte in kg / weights in kg**

- 2.2.0. Genehmigung oder Prüfung / *approval or test* : Prüfung gem. / *test acc. to* § 1 (1) Nr. 5 eKFV
 Anforderungen erfüllt / *requirements fulfilled*
- 2.2.3. Leergewicht / *unladen weight* : 22 kg
- 2.2.4. Achslasten bzw. Radlasten bei Leergewicht / *axle load or wheel load at unladen weight*
 Achse / *axle 1* : 11,3 kg
 Achse / *axle 2* : 10,7 kg
- 2.2.5. Nutzlast / *load capacity* : 120 kg
- 2.2.7. Zul. Gesamtgewicht / *technically permissible maximum weight as stated by manufacturer* : 142 kg
- 2.2.8. Zul. Achslast bzw. zul. Radlast / *permissible axle load or permissible wheel load*
 Achse / *axle 1* : 120 kg
 Achse / *axle 2* : 120 kg
- 2.2.9. Zul. Anhängelast / *permissible towing mass* : entfällt / *not applicable*
- 2.2.11. Zul. Stützlast / *permissible bear load* : entfällt / *not applicable*
- 2.2.12. Weitere Angaben / *further informations* : keine / *none*

3. Antriebsmaschine / propulsion engine

- 3.1. Identifizierungsmerkmal / *identification code* : KuKirin G2PRO DA*****
- 3.2. Hersteller / *manufacturer* : DAAO ELECTRIC(JIANGSU) CO., LTD.
- 3.6. Elektromotor / *electric motor*
- 3.6.0. Genehmigung oder Prüfung / *approval or test* : Prüfung der Nenndauerleistung gem. / *test of continuous rated power acc. to* UN-Regelung Nr. 85 / *UN-Regulation no. 85*
 Prüfbericht Nr. / *test report no.:* 87-R85-3087/25-00
 Anforderungen erfüllt / *requirements fulfilled*
- 3.6.1. Bauart / *type of construction* : Radnabenmotor / *wheel hub motor*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

3.6.2.	Nennspannung in V / <i>nominal voltage in V</i>	: 48
3.6.3.	Leistung in kW / <i>power in kW</i>	: 0,50
3.6.4.	Energiequelle bzw. Batterie / <i>energy source or battery</i>	
3.6.4.1.	Nennspannung in V / <i>nominal voltage in V</i>	: 48
3.6.4.2.	Nennkapazität in Ah / <i>nominal capacity in Ah</i>	: 15,6
3.6.4.3.	Anzahl / <i>quantity</i>	: 1
3.6.4.4.	Maximaler Entladestrom in A / <i>maximum discharging current in A</i>	: 20
3.6.4.5.	Identifizierungsmerkmal / <i>identification code</i>	: RYD48-15.6
3.6.4.6.	Hersteller / <i>manufacturer</i>	: Huizhou Ryder New Energy Co., Ltd.
3.6.5.	Steuerung / <i>control</i>	
3.6.5.1.	Identifizierungsmerkmal / <i>identification code</i>	: FE-G2-PRO-ABE
3.6.5.2.	Firmwarestand gem. Hersteller / <i>firmware version acc. to manufacturer</i>	: DY001276
3.6.5.3.	Hersteller / <i>manufacturer</i>	: TIAN JIN SANTROLL ELECTRIC TECHNOLOGY Co., Ltd.
3.6.6.	Weitere Angaben / <i>further informations</i>	: Prüfung der EMV gem. / <i>test of EMC acc. to UN-Regelung Nr. 10 / UN-Regulation no. 10</i> Prüfbericht Nr. / <i>test report no.</i> : 87-R10-3086/25-00 Prüfung der Batteriesicherheit gem. / <i>test of battery safety acc. to</i> DIN EN 15194:2018-11 Kap. 4.2.3 i.V.m EN 62133 Prüfbericht Nr. / <i>test report no.</i> : PTC25052402901B-IE01V01 Anforderungen erfüllt / <i>requirements fulfilled</i>
3.8.	Geräusch in dB(A) / <i>noise in dB(A)</i>	
3.8.2.	Standgeräusch / <i>static noise</i>	: entfällt / <i>not applicable</i>
3.8.2.1.	Drehzahl / <i>Engine speed</i>	: entfällt / <i>not applicable</i>

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O3.8.3. Fahrgeräusch / *drive by noise* : entfällt / *not applicable***3.9. Maßnahmen gegen Verunreinigung der Luft / *measures against air pollution***3.9.0. Genehmigung oder Prüfung / *approval or test* : entfällt / *not applicable***4. Kraftübertragung / *power transmission***4.1. **Art / *kind*** : mechanisch / ~~hydraulisch~~ / elektrisch
mechanical / ~~hydraulic~~ / electrical(Radnabenmotor / *wheel hub motor*)**4.3. Getriebe / *gearbox***4.3.1. Bauart / *construction* : entfällt / *not applicable*4.3.4. Übersetzungen / *ratio* : 1 : 14.5. **Höchstgeschwindigkeit / *maximum design speed*** : 20 km/h4.5.0. Genehmigung oder Prüfung / *approval or test* : Prüfung gem. / *test acc. to*
§ 1 (1) eKFV i.V.m. Anlage (zu § 7 Nummer 1)
Nr. 2.1 eKFVAnforderungen erfüllt / *requirements fulfilled*4.5.1. Geschwindigkeitsbegrenzer / *speed limiter* : siehe / *see* 3.6.5.4.5.1.0. Genehmigung oder Prüfung / *approval or test* : Herstellerbescheinigung zur Manipulationssicherheit
gem. / *manufacturers declaration for manipulation security acc. to*
DIN EN 15194:2018-11 Kap. 4.2.17
liegt vor / *is available*.Anforderungen erfüllt / *requirements fulfilled*4.6. **Geschwindigkeitsmesser bzw. Tachometer / *speedometer*** : ja / *yes*4.6.0. Genehmigung oder Prüfung / *approval or test* : Prüfung gem. / *test acc. to*
Anlage (zu § 7 Nummer 1) Nr. 2.1.4 eKFVAnforderungen erfüllt / *requirements fulfilled*4.6.1. Weitere Angaben / *further informations* : Die Abweichung der angezeigten Geschwindigkeit zur
tatsächlichen beträgt max. + 10 %. / *The deviation of the displayed speed from the actual speed is max. + 10 %.*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

- 4.9. Antrieb auf / *traction on* :** Achse / *axle* 2
- 5. Achsen, Radführungen / *axles, wheel control***
- 5.1. Bauart / *construction***
 Achse / *axle* 1 : geschobene Langarmschwinge, gefedert/
pushed long swingarm, suspended
 Achse / *axle* 2 : Schwinge, gefedert/ *swingarm, suspended*
- 5.2. Anzahl / *number* :** 2
- 5.3. Anzahl angetriebener Achsen / *number of driven axles* :** 1
- 6. Federn, Dämpfer, Räder, Bereifung / *suspension, shock absorber, wheels, tyres***
- 6.1. Federung / *suspension***
 Achse / *axle* 1 : Schraubenfeder / *coil spring*
 Achse / *axle* 2 : Schraubenfeder / *coil spring*
- 6.2. Dämpfung / *shock absorber***
 Achse / *axle* 1 : Reibungsdämpfer / *friction shock absorber*
 Achse / *axle* 2 : Reibungsdämpfer / *friction shock absorber*
- 6.3. Räder und Bereifung / *wheels and tyres***
- 6.3.1. Bauart / *construction***
 Achse / *axle* 1 : einteiliges Scheibenrad / *one-piece disc wheel*
 Achse / *axle* 2 : Radnabenmotor / *wheel hub motor*
- 6.3.2. Hersteller / *manufacturer***
 Achse / *axle* 1 : Wuyi Bowang Metal Products Co., Ltd.
 Achse / *axle* 2 : siehe / *see* 3.2.
- 6.3.4. Kennzeichnung / *marking***
 Achse / *axle* 1 : entfällt / *not applicable*
 Achse / *axle* 2 : siehe / *see* 3.1.
- 6.3.5. Ort der Kennzeichnung / *location of marking***
 Achse / *axle* 1 : entfällt / *not applicable*
 Achse / *axle* 2 : siehe / *see* 0.7.
- 6.3.6. Werkstoff / *material* :** Aluminiumlegierung / *aluminium alloy*
- 6.3.7. Anzahl / *quantity* :** 2
- 6.3.8. Einpresstiefe in mm / *offset in mm* :** entfällt / *not applicable*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

- 6.3.9. Felgengröße / *rim size*
 Achse / *axle* 1 : 153 x 55 mm
 Achse / *axle* 2 : 150 x 58 mm
- 6.3.10. Größenbezeichnung der Bereifung / *tyre size*
 Achse / *axle* 1 : 9*3.0-5.5
 Achse / *axle* 2 : 9*3.0-5.5
- 6.3.11. Art der Bereifung / *kind of tyres* : einfach, Luftreifen, Schlauchlos / *single formation, air tyre, tubeless*

7. Lenkanlage / *steering system*

- 7.1. Bauart / *construction* : Kraftrad-/Steuerkopflenkung, mechanisch / *motorcycle or head tube steering, mechanical*
- 7.4. Lenkrad bzw. Lenker / *steering wheel or handlebar*
- 7.4.0. Genehmigung oder Prüfung / *approval or test* : entfällt / *not applicable*
- 7.4.2. Identifizierungsmerkmal und Ort / *identifier and location* : entfällt / *not applicable*
- 7.4.4. Durchmesser des Lenkrades bzw. Lenkerbreite in mm / *diameter of the steering wheel or width of handlebar in mm* : 590
- 7.7. möglicher Lenkeinschlag in Grad / *maximum steering angle in degree*
 links / *left* : 60 °
 rechts / *right* : 60 °
- 7.9. Weitere Angaben / *further informations* : Lenkstange, klappbar / *steering rod, foldable*

8. Bremsanlagen / *brake system*

- 8.0. Genehmigung oder Prüfung / *approval or test* : Prüfung gem. / *test acc. to*
 § 4 (1) eKFV i.V.m. Anlage (zu § 7 Nummer 1)
 Nr. 2.2 eKFV
 Anforderungen erfüllt / *requirements fulfilled*
- 8.1. Betriebsbremsanlage / *service brake*
- 8.1.1. Art / *kind*
 Achse / *axle* 1 : Muskelkraftbremsanlage, handbetätigt, mit mechanischer Übertragungseinrichtung / *muscle power brake system, operated by hand, with mechanic transmission device*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

	Achse / <i>axle</i> 2	:	Muskelkraftbremsanlage, handbetätigt, mit mechanischer Übertragungseinrichtung / <i>muscle power brake system, operated by hand, with mechanic transmission device</i>
8.1.4.	Bremse / <i>brake</i>		
8.1.4.1.	Art / <i>kind</i>		
	Achse / <i>axle</i> 1	:	Scheibenbremse / <i>disc brake</i>
	Achse / <i>axle</i> 2	:	Scheibenbremse / <i>disc brake</i>
8.1.4.2.	Typ / <i>type</i>		
	Achse / <i>axle</i> 1	:	T-3
	Achse / <i>axle</i> 2	:	T-3
8.1.4.3.	Hersteller / <i>manufacturer</i>		
	Achse / <i>axle</i> 1	:	Zhejiang Tuolan Automobile Industry Co., Ltd.
	Achse / <i>axle</i> 2	:	Zhejiang Tuolan Automobile Industry Co., Ltd.
8.1.4.5.	Trommel- bzw. Scheibendurchmesser in mm / <i>drum or disc diameter in mm</i>		
	Effektiver Bremsscheiben- /Trommeldurchmesser / <i>effective diameter of brake disc or drum</i>		
	Achse / <i>axle</i> 1	:	103
	Achse / <i>axle</i> 2	:	103
	Außendurchmesser / <i>outer diameter</i>		
	Achse / <i>axle</i> 1	:	120
	Achse / <i>axle</i> 2	:	120
	Anzahl der Scheiben je Bremse / <i>number of discs for each brake</i>		
	Achse / <i>axle</i> 1	:	1
	Achse / <i>axle</i> 2	:	1
8.1.5.	Bremsbelag / <i>brake lining</i>		
8.1.5.3.	Hersteller / <i>manufacturer</i>		
	Achse / <i>axle</i> 1	:	Zhejiang Tuolan Automobile Industry Co., Ltd.
	Achse / <i>axle</i> 2	:	Zhejiang Tuolan Automobile Industry Co., Ltd.
	Kennzeichnung / <i>marking</i>		
	Achse / <i>axle</i> 1	:	entfällt / <i>not applicable</i>
	Achse / <i>axle</i> 2	:	entfällt / <i>not applicable</i>
8.1.5.5.	wirksame Bremsbelagfläche in cm ² / <i>total friction area in cm²</i>		
	Achse / <i>axle</i> 1	:	5,36
	Achse / <i>axle</i> 2	:	5,36
8.1.6.	Übersetzung bis Zuspaltung / <i>transformation ratio until disc or drum</i>		
	Achse / <i>axle</i> 1	:	Handhebel / <i>hand lever</i> : 35 / 110
	Achse / <i>axle</i> 2	:	Handhebel / <i>hand lever</i> : 35 / 110

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

8.1.20.	Bremshebellänge an der Bremse in mm / <i>brake lever length at brake in mm</i>	
	Achse / <i>axle</i> 1	: 26
	Achse / <i>axle</i> 2	: 26
8.1.21.	Hauptzylinder-Durchmesser in mm / <i>brake master cylinder diameter in mm</i>	
	Achse / <i>axle</i> 1	: entfällt / <i>not applicable</i>
	Achse / <i>axle</i> 2	: entfällt / <i>not applicable</i>
8.1.22.	Radzylinder- bzw. Bremszylinder-Durchmesser in mm / <i>diameter of wheel-brake cylinder or brake cylinder in mm</i>	
	Achse / <i>axle</i> 1	: entfällt / <i>not applicable</i>
	Achse / <i>axle</i> 2	: entfällt / <i>not applicable</i>
8.1.23.	Weitere Angaben / <i>further informations</i>	: entfällt / <i>not applicable</i>
8.2.	Hilfsbremsanlage / <i>secondary brake system</i>	: Bei Ausfall einer von zwei unabhängigen Betriebsbremsen gem. Nr. 8.1 werden nach Vorgabe § 4 Absatz 1, Nr. 4 noch mindestens 44 % der Bremswirkung erreicht. / <i>In the event of failure of one of two independent service brakes in accordance with No. 8.1, at least 44 % of the braking effect is still achieved in accordance with § 4 para. 1, No. 4.</i>
8.10.	Weitere Angaben / <i>further information</i>	: entfällt / <i>not applicable</i>
9.	Aufbau / <i>body</i>	
9.0.	Genehmigung oder Prüfung für vorstehende Außenkanten / <i>approval or test for preceding outer edges</i>	: Prüfung gem. / <i>test acc. to</i> § 7 Nr. 6 eKFV Anforderungen erfüllt / <i>requirements fulfilled</i>
9.1.	Art / <i>kind</i>	: siehe / <i>see</i> 0.2.
9.2.	Werkstoff / <i>material</i>	: Leichtmetall, Stahl / <i>light metal, steel</i>
9.3.	Hersteller / <i>manufacturer</i>	: siehe / <i>see</i> 0.1.
9.4.	Sitze / <i>seats</i>	
9.4.1.	Art und Anordnung / <i>kind and placement</i>	: entfällt / <i>not applicable</i>
9.4.2.	Anzahl der Plätze / <i>number of places</i>	
9.4.2.1.	Sitzplätze / <i>seats available</i>	: entfällt / <i>not applicable</i>

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O9.4.2.2. Stehplätze / *standing place available* : 1**9.9. Rückspiegel / rearview mirror**9.9.2.1. Art / *kind* : entfällt / *not applicable*9.9.2.2. Anzahl / *quantity* : entfällt / *not applicable*9.9.2.3. Ort und Art der Anbringung / *location and method of mounting* : entfällt / *not applicable*9.9.2.4. Weitere Angaben / *further informations* : keine / *none***9.11. Kennzeichen, Abmessungen / licence plate, dimensions**

9.11.0. Genehmigung oder Prüfung / *approval or test* : Prüfung gem. / *test acc. to*
 § 2 (1) Nr. 2 eKFV i.V.m. § 29a (3) FZV
 Anforderungen erfüllt / *requirements fulfilled*

9.11.3. Abmessungen hinten in mm / *rear plate dimensions in mm* : $\geq 53 \times 65$ 9.11.4. Höhe des ~~oberen bzw.~~ unteren Randes hinten in mm / *height of the upper or lower edge on the rear in mm* : ≥ 50 9.11.5. Anbringungswinkel in Grad / *mounting angle in degree* : ≤ 30 9.13. Krafttradverkleidung / *motor cycle cover* : entfällt / *not applicable*

9.14. Zentralständer, Seitenständer / *central stand, side stand* : Zentralständer / *central stand*: nein / *no*
 Seitenständer / *side stand*: ja / *yes*

10. Lichttechnische Einrichtungen, Abmessungen / lighting devices, dimensions

10.0. Genehmigung oder Prüfung hinsichtl. Anbau / *approval or test regarding mounting* : Prüfung gem. / *test acc. to*
 § 5 eKFV i.V.m. § 67 StVZO u. UNECE-R 74
 Anforderungen erfüllt / *requirements fulfilled*

10.1. Scheinwerfer für Abblendlicht und Fernlicht / headlamps for dipped beam and main beam10.1.1. Anzahl / *quantity* : 1

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

-
- 10.1.2. Scheinwerfer für Abblend- und Fernlicht / *headlamps for dipped and main beam*
- 10.1.2.0 Prüfzeichen / *approval mark* : K 1998
- 10.1.2.4. Leistungsaufnahme der Glühlampe / *power consumption of light bulb* : 1,3 W
- 10.2. Begrenzungsleuchten / *clearance lamps***
- 10.2.0. Prüfzeichen / *approval mark* : entfällt / *not applicable*
- 10.2.1. Anzahl / *quantity* : entfällt / *not applicable*
- 10.3. Schlussleuchten / *rear lamps***
- 10.3.0. Prüfzeichen / *approval mark* : MR E4 148R00 29604
- 10.3.1. Anzahl / *quantity* : 1
- 10.4. Bremsleuchten / *stop lights***
- 10.4.0. Prüfzeichen / *approval mark* : MS E4 148R00 29604
- 10.4.1. Anzahl / *quantity* : 1
- 10.5. Rote Rückstrahler / *red retro reflectors***
- 10.5.0. Prüfzeichen / *approval mark* : K 2024
- 10.5.1. Anzahl / *quantity* : 1
- 10.6. Fahrtrichtungsanzeiger / *direction indicators***
- 10.6.0. Prüfzeichen / *approval mark*
- 10.6.0.1. Vorn / *front* : entfällt / *not applicable*
- 10.6.0.3. Hinten / *rear* : entfällt / *not applicable*
- 10.7. Kennzeichenbeleuchtung / *licence plate illumination***
- 10.7.0. Prüfzeichen / *approval mark* : entfällt / *not applicable*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O
**10.11. Lichttechnische Einrichtungen zur
seitlichen Kenntlichmachung /
light-technicals devices for side
marking**

 10.11.1. Seitliche rückstrahlende Mittel / *side
reflector devices*

 10.11.1.0. Prüfzeichen / *approval mark* : IA E4 024084

 10.11.1.1. Anzahl / *quantity* : 2 (einer je Seite) / (*one on each side*)

**10.22. Weiße Rückstrahler / white retro
reflectors**

 10.22.1. Prüfzeichen / *approval mark* : K 1911

 10.22.2. Anzahl / *quantity* : 1

12. Verschiedenes / miscellaneous
**12.1. Schallzeichen / audible warning
device**

 12.1.0. Genehmigung oder Prüfung und
Prüfzeichen / *approval or test and
approval mark* : Prüfung gem. / *test acc. to* § 6 eKFV
Anforderungen erfüllt / *requirements fulfilled*

 12.1.1. Bauart / *construction* : helltönende Glocke gem. / *bright sounding bell acc. to*
§ 64a StVZO

 12.4. Sicherungseinrichtung gegen
unbefugte Benutzung / *protection
against unauthorized use* : entfällt / *not applicable*

 12.8. Akustische Kontrolle der
Fahrtrichtungsanzeiger / *acoustic
check of direction indicators* : entfällt / *not applicable*
**12.9 Weitere Angaben / further
information**

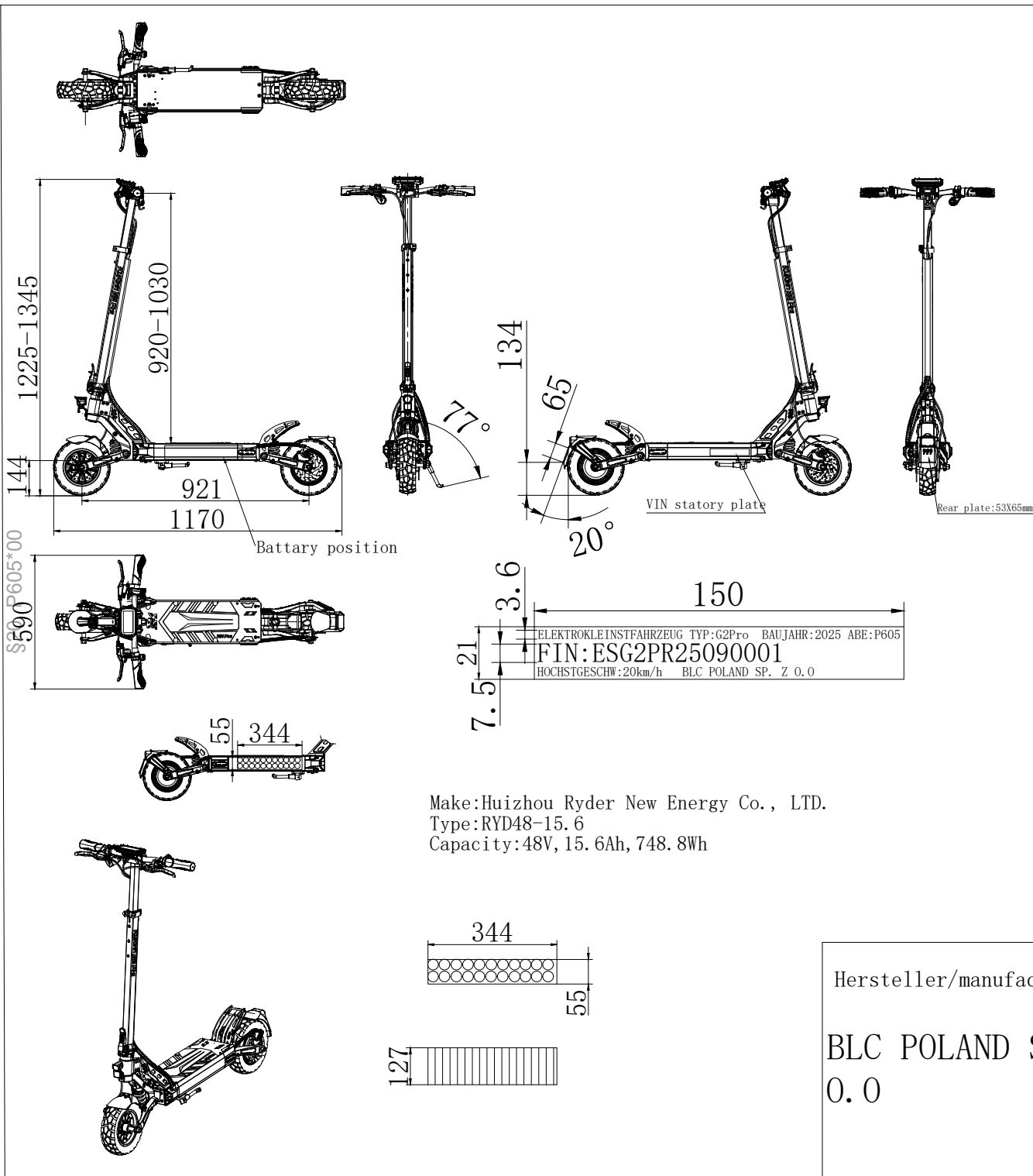
 12.9.1. Prüfung der Fahrdynamik / *testing of
driving dynamics* : Prüfung gem. / *test acc. to*
§ 7 Nr. 1 eKFV i.V.m. Anlage (zu § 7 Nummer 1)
Nr. 2.3 eKFV
Anforderungen erfüllt / *requirements fulfilled*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

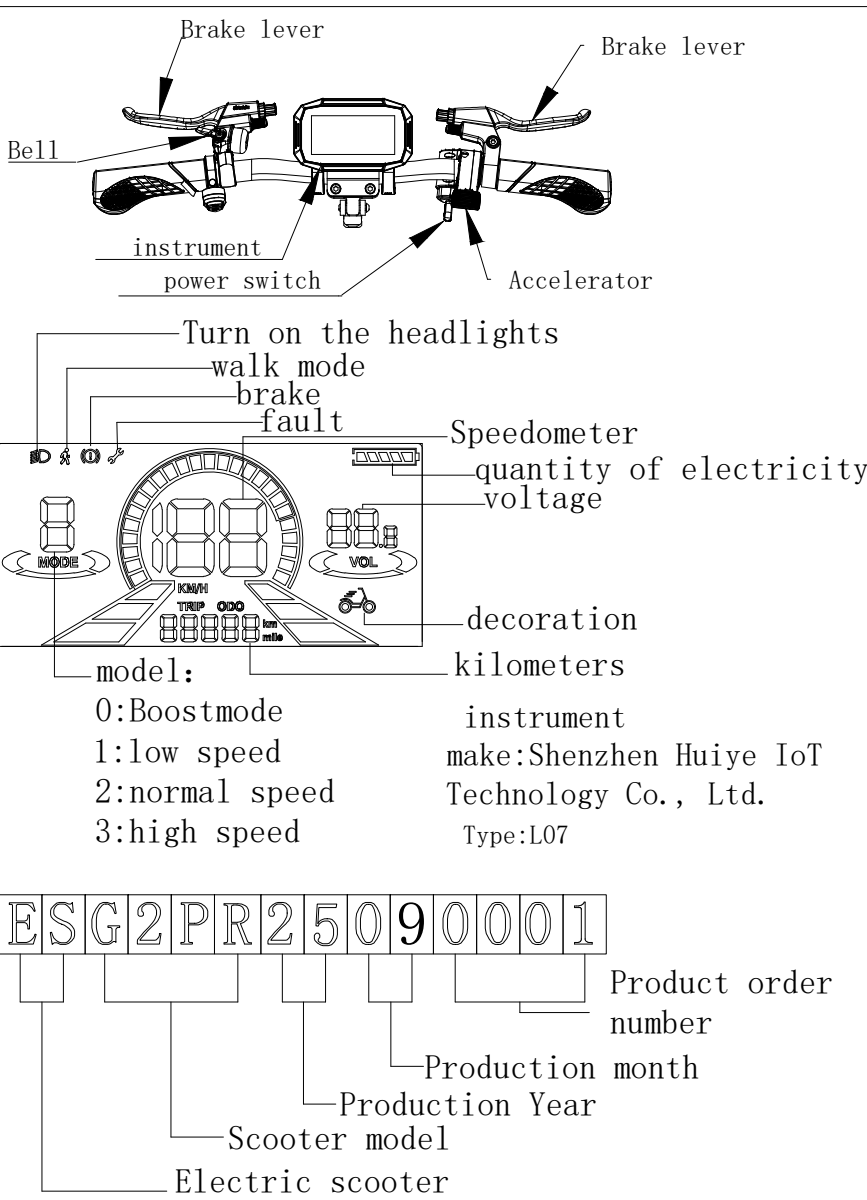
-
- 12.9.2. Schutz gegen Berühren : Prüfung gem. / *test acc. to* § 7 Nr. 4 eKFV
spannungsführender Teile / *protection*
against contact to electrical parts Anforderungen erfüllt / *requirements fulfilled*
- 12.9.3. Funktionsschnittstellen / *interface* : entfällt / *not applicable*
features
- 13. Abweichungen, Auflagen, Anlagen / *deviations, additional requirements, enclosures***
- 13.1. **Abweichungen / *deviations*** : entfällt / *not applicable*
- 13.2. **Auflagen / *additional requirements*** : *Der Fahrzeugführer hat sich vor Fahrtantritt mithilfe der Betriebsanleitung mit dem Fahrzeug vertraut zu machen. Dies gilt insbesondere für erschwerte Fahrsituationen (beispielsweise Bordsteine, steile Rampen, Quer- und Längsrillen etc.). /
**Before driving, the driver must familiarise himself with the vehicle using the operating instructions. This applies in particular to difficult driving situations (e.g. curbs, steep ramps, transverse and longitudinal grooves, etc.).*

Fahrzeugtyp / *vehicle type* : G2ProHersteller / *manufacturer* : BLC Poland SP.Z O.O

Anlage Nr. / Encls. no.	Zeichnungs / Berichtsnr. / Drawing or report no.	Bezeichnung / Description	Seiten / pages
13.3./2.1.	13.3./2.1	Zeichnung des gesamten Fahrzeugs / <i>drawing of the whole vehicle</i>	2
13.3./3.	13.3./3.	Zeichnung der Antriebsmaschine / <i>drawing of propulsion engine</i>	1
13.3./8.	13.3./8.	Schematische Darstellung der Bremsanlage / <i>schematic diagram of the brake system</i>	1
13.3./9.1.	13.3./9.1.	Fotos einer repräsentativen Fahrzeugausführung / <i>photos of a representative vehicle</i>	1
13.3./10.	13.3./10.	Schematische Darstellung des gesamten Fahrzeugs mit Angaben zur Beleuchtung / <i>drawing of the whole vehicle with details of lighting de- vices</i>	1
13.3./3.6.1.	PTC25052402901B- IE01V01	Nachweis der Batteriesicherheit / <i>confirmation of battery safety</i>	29
13.3./ 3.6.2.	87-R85-3087/25-00	Nachweis der Nenndauerleistung / <i>confirmation of continuous rated power</i>	9
13.3./12.6.3.	87-R10-3086/25-00	Nachweis der elektromagnetischen Verträglichkeit / <i>confirmation of electromagnetic compatibility</i>	13
13.3./4.5.	-	Erklärung des Genehmigungsinhabers über Maßnahmen zur Verhinderung unbefugter Eingriffe in den Antriebsstrang und andere genehmigungsrelevante Bauteile oder Systeme/ <i>Approval holder's declaration on measures to prevent tampering on powertrain and other approval relevant components or systems</i>	2
13.3./12.	-	Datenbestätigung gem. Muster 2d § 20 StVZO / <i>data conformity sheet acc. to sample 2d § 20 StVZO</i>	1

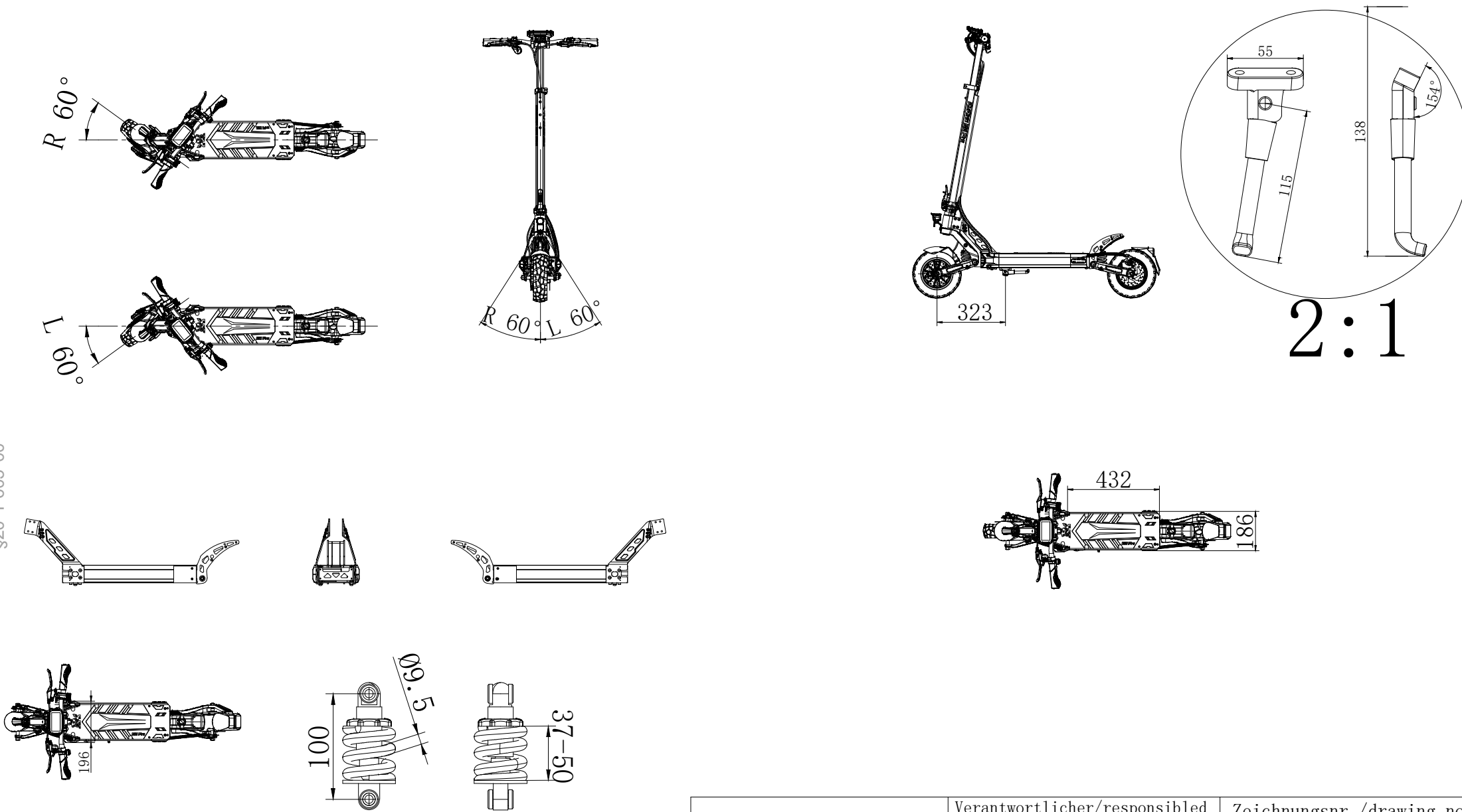


Make:Huizhou Ryder New Energy Co., LTD.
Type:RYD48-15.6
Capacity:48V, 15. 6Ah, 748. 8Wh



Hersteller/manufacturere: BLC POLAND SP. Z 0.0	Verantwortlicher/responsible XuZhiqiang	Zeichnungsnr./drawing no: 13. 3. /2. 1	
	Titel/title: Zeichnung des gesamten Fahrzeugs/drawing of the whole vehicle	Material/material:	
		Maßstab/scale: 1:20	Blatt/page: 1/2

\$20 P605*00

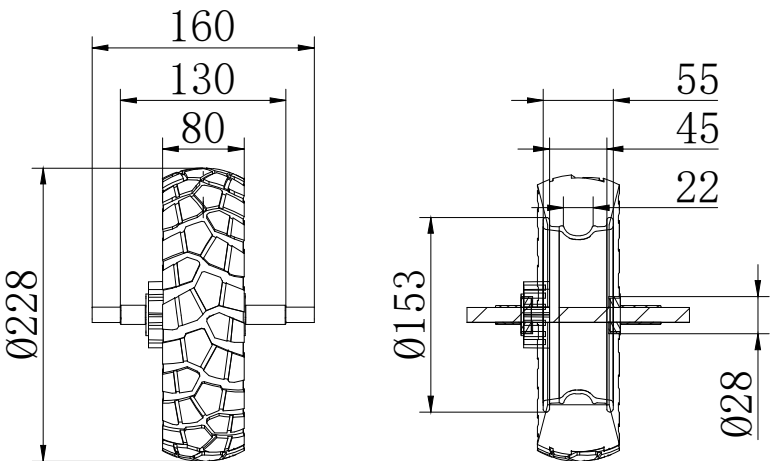


2:1

Make:mechanical damper
Type:Ningbo Julong
Environmental Protection
Technology Co., LTD

Hersteller/manufacturere: BLC POLAND SP. Z 0.0	Verantwortlicher/responsible XuZhiqiang	Zeichnungsnr./drawing no: 13.3./2.1	
	Titel/title: Zeichnung des gesamten Fahrzeugs/drawing of the whole vehicle	Material/material:	
		MaBstab/scale: 1:20	Blatt/page: 2/2

Front wheel



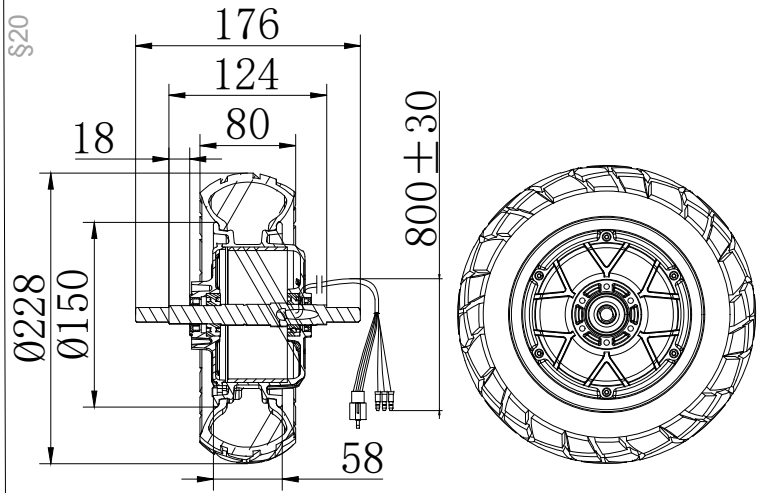
Make:Wuyi Bowang Metal Products Co., Ltd

Type:BW

Rear wheel (motor)

Tyre Type:9*3.0-5.5

\$20 P605*00

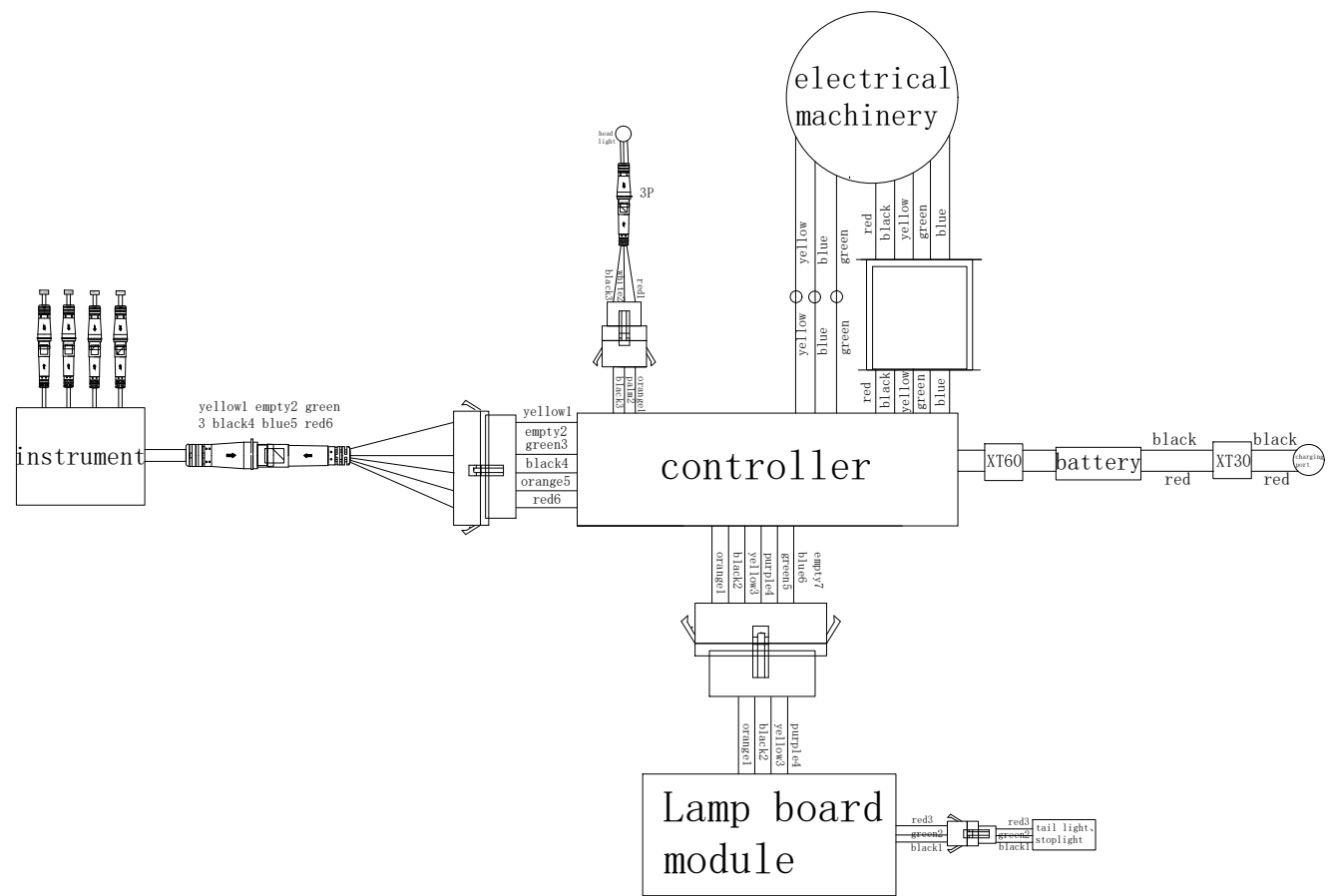


Make:DAAO ELECTRIC (JIANGSU) CO., LTD.

Type:DA

Marking: KuKirin G2PRO DA *****

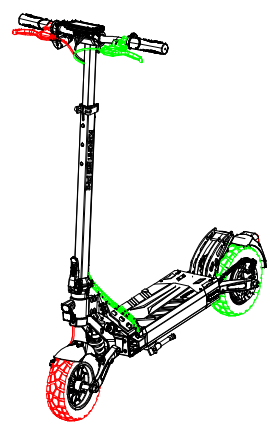
Tyre Type:9*3.0-5.5



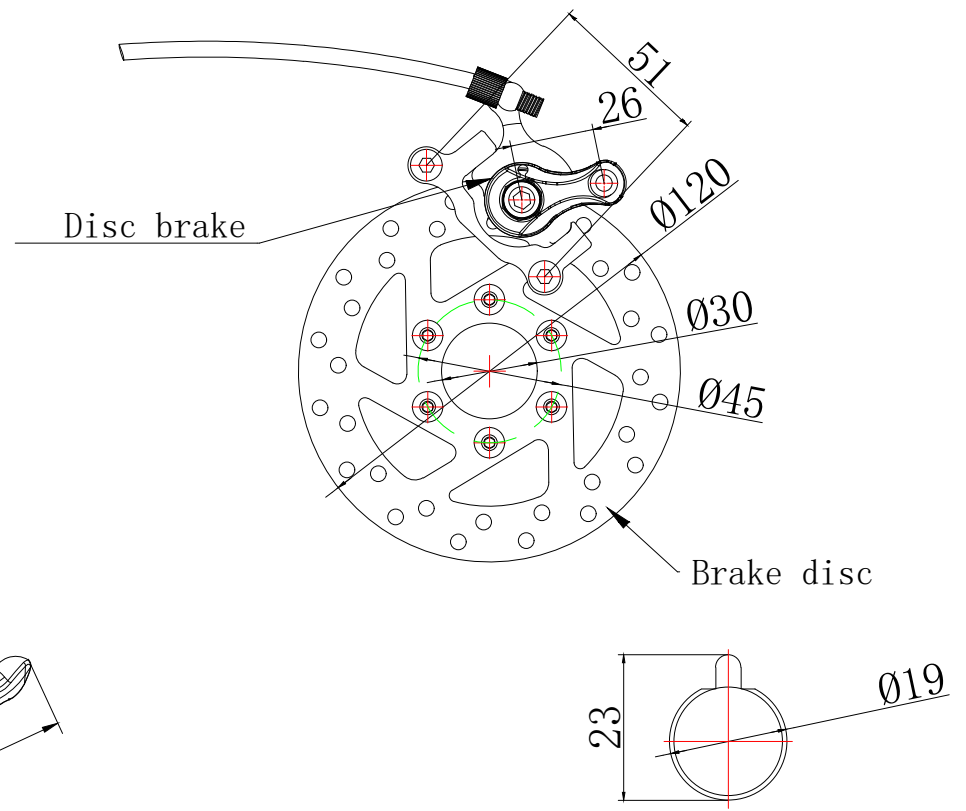
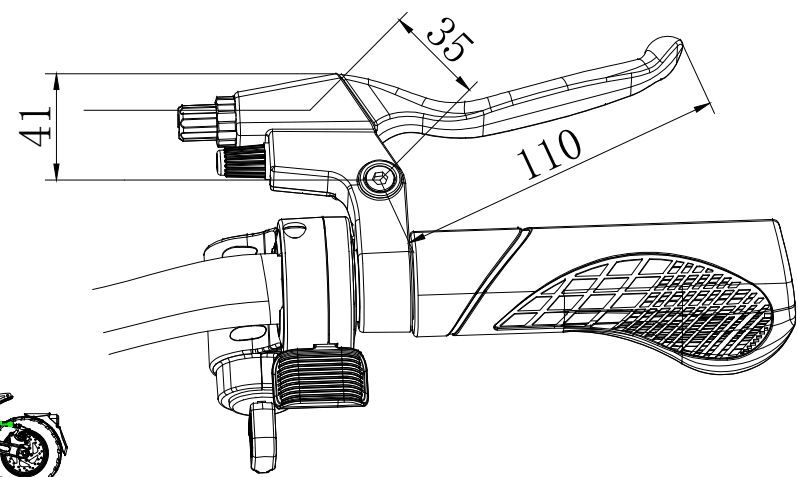
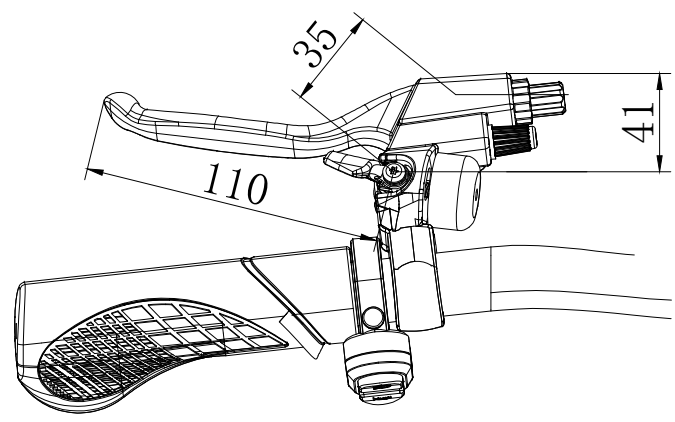
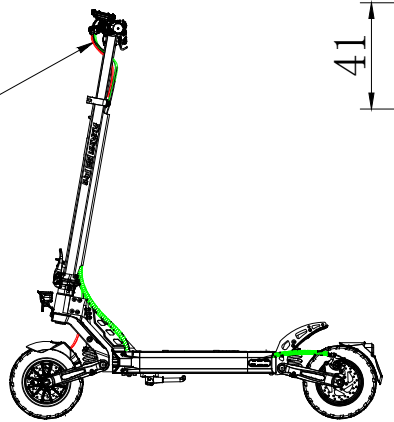
controller Make:TIAN JIN SANTROLL ELECTRIC TECHNOLOGY Co., Ltd
controller Type:FE-G2-PRO-ABE

Hersteller/manufacturer: BLC POLAND SP. Z O.O	Verantwortlicher/responsible XuZhiqiang	Zeichnungsnr./drawing no: 13.3./3.	
	Titel/title: 13.3./3. Zeichnung der Antriebsmaschine / drawing of propulsion engine	Material/material:	
		MaBstab/scale:Blatt/page: 1:20	1/1

\$20 P605*00



Front and rear
disc brakes



Make:Zhejiang Tuolan
Automobile Industry Co., Ltd
Type:T-3
Material : Resin
Brake area:268mm²*2

Hersteller/manufacturer: BLC POLAND SP. Z 0.0	Verantwortlicher/responsibled XuZhiqiang		Zeichnungsnr./drawing no: 13.3./8.	
	Titel/title: 13.3./8. Schematische Darstellung der Bremsanlage / schematic diagram of the brake system		Material/material:	
			MaBstab/scale:Blatt/page: 1:20	1/1



Hersteller/manufacturer: BLC POLAND SP. Z O.O	Verantwortlicher/responsible XuZhiqiang		Zeichnungsnr./drawing no: 13.3./9.1.	
	Titel/title: 13.3./9.1.Fotos einer repräsentativenFahrzeugauf führung / photos of a representative vehicle		Material/material:	
			Maßstab/scale:Blatt/page:	1:20 1/1

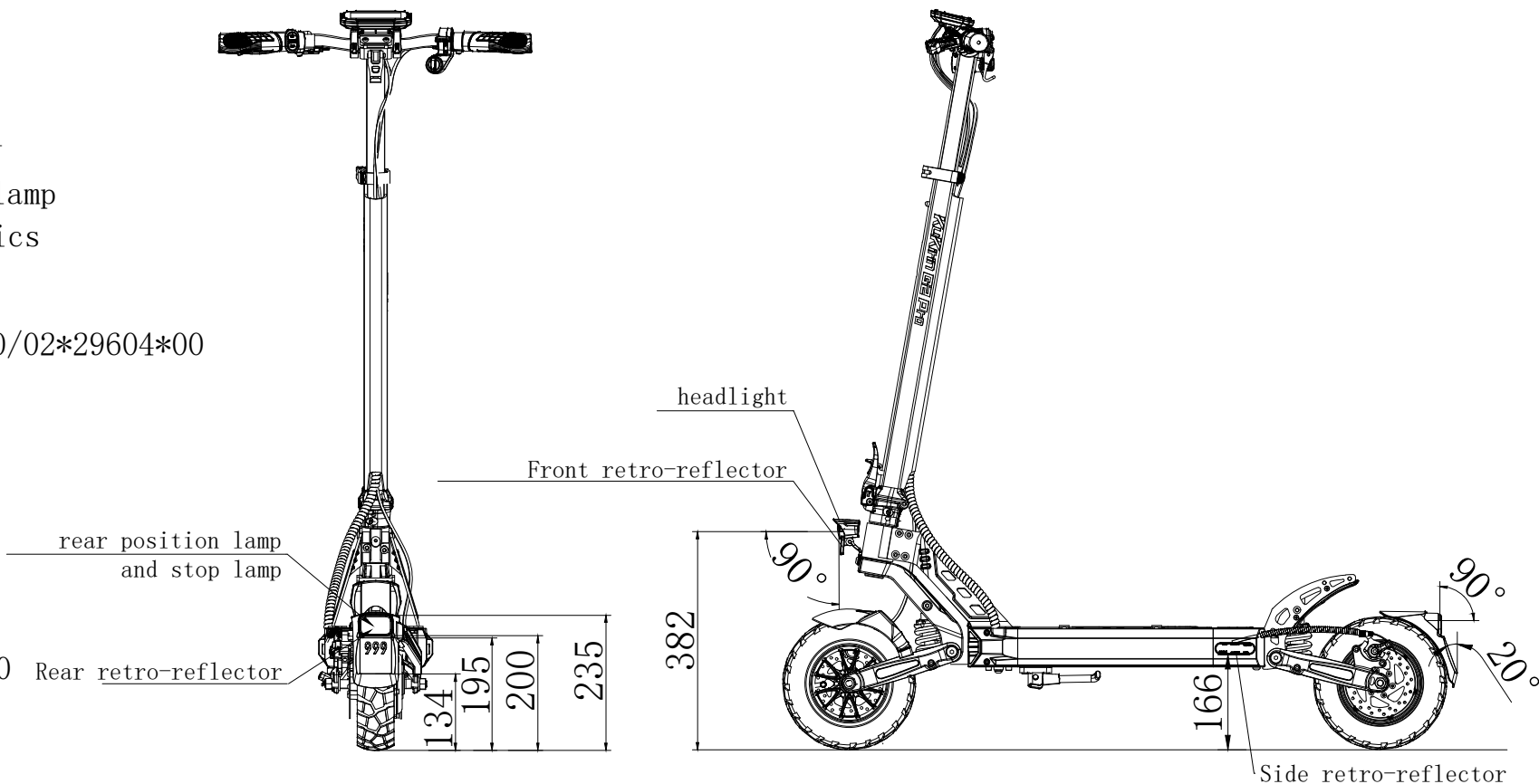
headlight
make:Foshan City Shunde
District Chengdi
Electronic Technology
Co., Ltd.
type: DH008-C
Approval number: K 1998*01

Rear position lamp/ stop lamp
make:K-Lite (Yuyao) Plastics
Co., Ltd.
type:Z108
Approval number: E4*148R00/02*29604*00

Front
retro-reflector
make:Foshan City Shunde
District Chengdi
Electronic Technology
Co., Ltd.
type:DF003
Approval number: K 1911*00

Side
retro-reflector
make:K-Lite(Yuyao) Plastics
Co., Ltd.
type:KM129
Approval number: E4*3R02/17*4084*01

Rear
retro-reflector
make:K-Lite (Yuyao) Plastics
Co., Ltd.
type:Z108
Approval number: K 2024*00



Hersteller/manufacturer: BLC POLAND SP. Z 0.0	Verantwortlicher/responsibled	Zeichnungsnr./drawing no: 13.3./10.	
	Titel/title: 13.3./10. Schematische Darstellung des gesamten Fahrzeugs mit Angaben zur Beleuchtung/drawing of the whole vehicle with details of lighting devices	Material/material:	
		Maßstab/scale: 1:20	Blatt/page: 1/1



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CNAS L5772

Page 1 of 29

TEST REPORT IEC 62133-2

Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems

Report Number: PTC25052402901B-IE01V01

Date of issue: 2025.10.16

Total number of pages: 29 pages

Applicant's name: Huizhou Ryder New Energy Co.,LTD.

Address: No.16,Sanhe Avenue,Starting Area,China-Korea Huizhou Industrial Park,Zhongkai District,Huizhou City,Guangdong Province,P.R.China

Test specification:

Standard: IEC 62133-2: 2017, IEC 62133-2: 2017/AMD1: 2021

Test procedure: Type Test

Non-standard test method.....: N/A

Test Report Form No.....: IEC62133_2C

Test Report Form(s) Originator.....: DEKRA Certification B.V.

Master TRF: Dated 2022-07-01

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General disclaimer:

The test results presented in this report relate only to the object tested.

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Test item description: Li-ion Power Battery Pack

Trade Mark: N/A

Manufacturer.....: Same as applicant

Model/Type reference: RYD48-15.6

Ratings: 48V, 15.6Ah, 748.8Wh





Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	Testing Laboratory:	Precise Testing & Certification (Guangdong) Co., Ltd.
Testing location/ address		Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.
Tested by (name, signature).....		Curry Hu
Approved by (name, signature)		Starry Li
		
☐	Testing procedure: CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature) ..		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature) .		
Approved by (name, function, signature) ..		
☐	Testing procedure: CTF Stage 3:	
☐	Testing procedure: CTF Stage 4:	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) .		
Approved by (name, function, signature) ..		
Supervised by (name, function, signature) :		

TRF No. IEC62133_2C

Precise Testing & Certification (Guangdong) Co., Ltd.

Add: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.

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List of Attachments (including a total number of pages in each attachment):
Summary of testing:
Tests performed (name of test and test clause):

cl.5.6.2 Design recommendation;
 cl.7.1 Charging procedure for test purposes (for Cells and Batteries);
 cl.7.2.1 Continuous charging at constant voltage (Cells);
 cl.7.2.2 Case stress at high ambient temperature (Batteries);
 cl.7.3.1 External short-circuit (Cells);
 cl.7.3.2 External short-circuit (Batteries);
 cl.7.3.3 Free fall (Cells and Batteries);
 cl.7.3.4 Thermal abuse (Cells);
 cl.7.3.5 Crush (Cells);
 cl.7.3.6 Over-charging of batteries;
 cl.7.3.7 Forced discharge (Cells);
 cl.7.3.8 Mechanical tests (Batteries).

cl.7.3.9 was not evaluated by client request, and the applicant declares that this cell isn't to be sold in France, Japan, Republic of Korea and Switzerland.

Tests are made with the number of cells and batteries specified in IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021 Table 1.

Testing location:

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Summary of compliance with National Differences (List of countries addressed):

N/A

☒ The product fulfils the requirements of EN 62133-2:2017/A1:2021

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**Use of uncertainty of measurement for decisions on conformity (decision rule):**

☒ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

☐ Other: N/A (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

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**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Li-ion Power Battery Pack (+)Red (-)Black

Model: RYD48-15.6

48V, 15.6Ah, 748.8Wh

13INR19/66-6

Date: YYYY/MM/DD

Huizhou Ryder New Energy Co.,LTD.

Warning:

Do not disassemble, puncture, crush, heat or burn.

**Remark:**

"YYYY" means year for manufacture;

"MM" means month for manufacture;

"DD" means day for manufacture.

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Test item particulars	
Classification of installation and use	To be defined in final product
Supply Connection	DC connector
Recommend charging method declared by the manufacturer.....	Charging the battery with 2A constant current and 54.6V constant voltage until the current reduces to 312mA at ambient 20°C±5°C
Discharge current (0,2 It A).....	3.12A
Specified final voltage	36.4V
Upper limit charging voltage per cell	4.25V
Maximum charging current.....	2A
Charging temperature upper limit.....	45°C
Charging temperature lower limit	5°C
cell electrolyte type	☐ gel polymer ☐ solid polymer ☒ N/A
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2025.05.12
Date (s) of performance of tests	2025.05.12 to 2025.05.28
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC62133 2C:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)	Same as applicant

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General product information and other remarks:

This battery is constructed with 78 li-ion cells in 13S6P, and has overcharge, over-discharge, over current and short-circuits proof circuit.

This is the modified report (report No. PTC25052402901B-IE01V01, modified date:2025.10.16), and the original report (report No. PTC25052402901B-IE01, original issue date:2025.05.28) will be invalid.

The main features of the battery are shown as below (clause 7.1.1):

Model (Battery)	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
RYD48-15.6	15.6Ah	48V	2A	2A	2A	20A	54.6V	36.4V

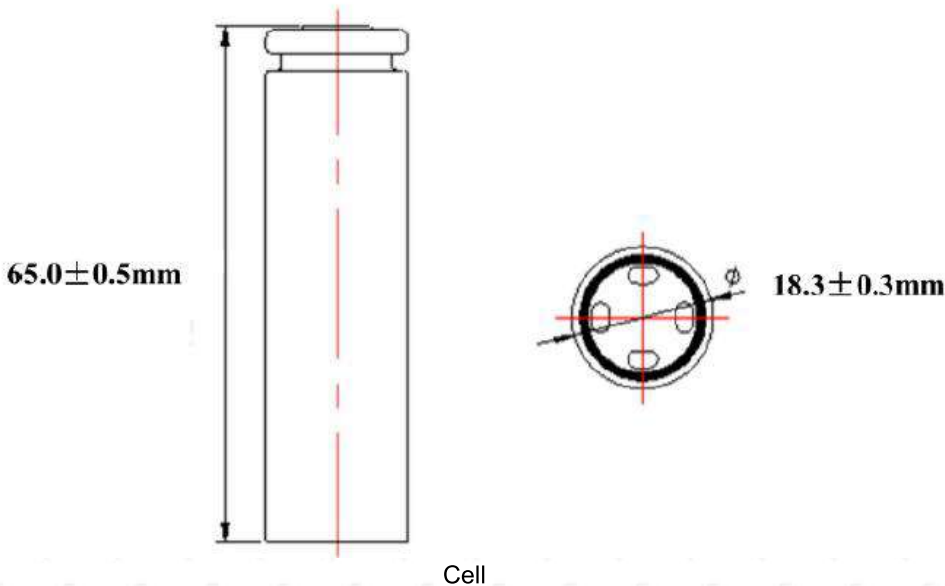
The main features of the cell in the battery are shown as below (clause 7.1.1):

Model (Cell)	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
INR18650-26B	2.6Ah	3.7V	520mA	520mA	2600mA	7800mA	4.25V	2.75V

The main features of the cell in the battery are shown as below (clause 7.1.2):

Model (Cell)	Upper limit charge voltage	Taper-off current	Lower charge temperature	Upper charge temperature
INR18650-26B	4.25V	130mA	0°C	45°C

Construction:



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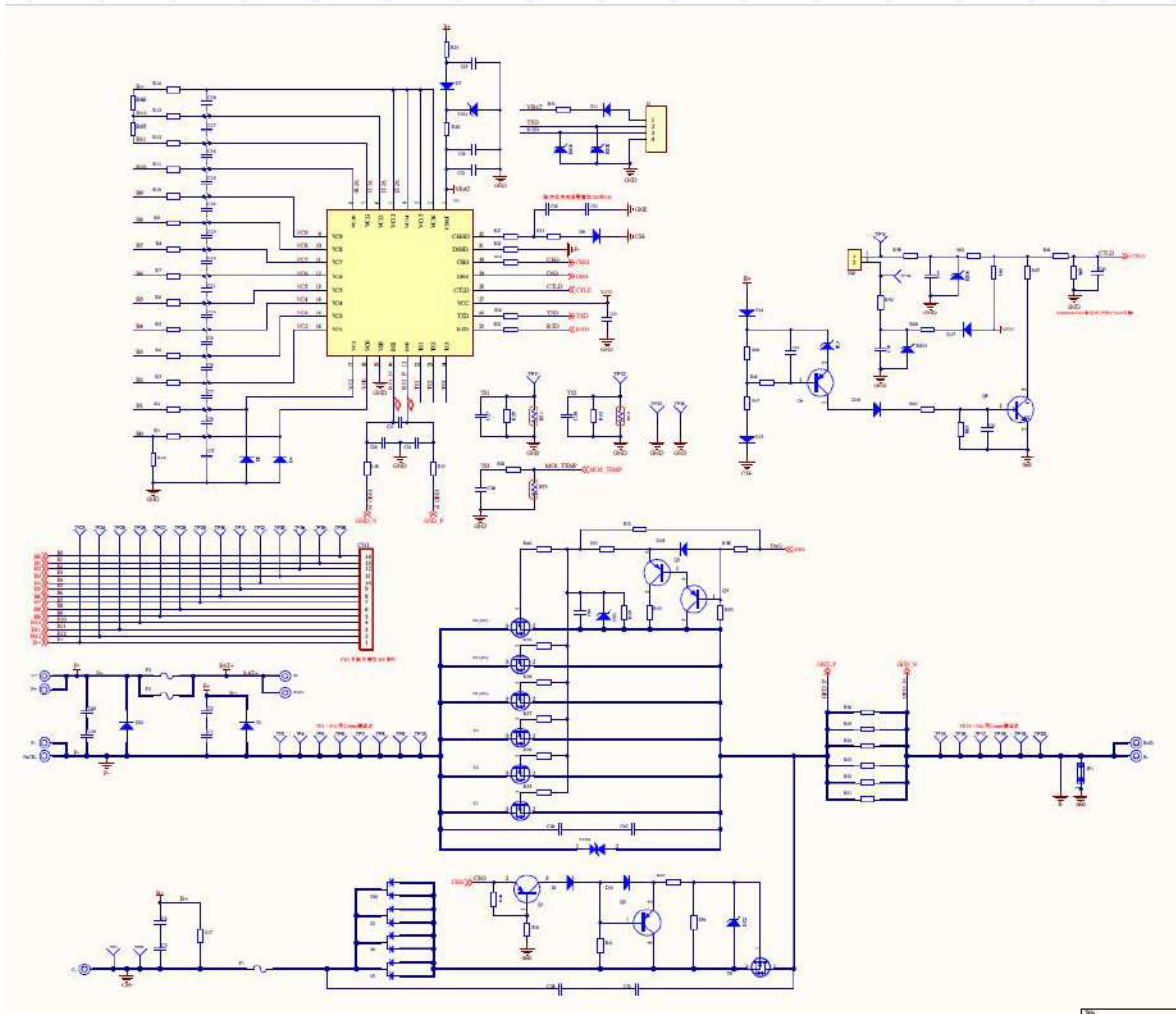
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\$20 P605*00



Battery (Unit: mm)

Circuit diagram:

Remark: NC expression components vacancy.

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IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
4	PARAMETER MEASUREMENT TOLERANCES		P
	Parameter measurement tolerances		P
5	GENERAL SAFETY CONSIDERATIONS		P
5.1	General		P
	Cells and batteries so designed and constructed that they are safe under conditions of both intended use and reasonably foreseeable misuse		P
5.2	Insulation and wiring		P
	The insulation resistance between the positive terminal and externally exposed metal surfaces of the battery (excluding electrical contact surfaces) is not less than 5 MΩ	No metal surface exists.	N/A
	Insulation resistance (MΩ).....:		—
	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		P
	Orientation of wiring maintains adequate clearance and creep age distances between conductors		P
	Mechanical integrity of internal connections accommodates reasonably foreseeable misuse		P
5.3	Venting		P
	Battery cases and cells incorporate a pressure relief mechanism or are constructed so that they relieve excessive internal pressure at a value and rate that will preclude rupture, explosion and self-ignition	Venting mechanism exists on the top of cylindrical cell.	P
	Encapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation nor inhibit pressure relief		P
5.4	Temperature, voltage and current management		P
	Batteries are designed such that abnormal temperature rise conditions are prevented	Overcharge, over discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 7.	P
	Batteries are designed to be within temperature, voltage and current limits specified by the cell manufacturer	See above.	P
	Batteries are provided with specifications and charging instructions for equipment manufacturers so that specified chargers are designed to maintain charging within the temperature, voltage and current limits specified	The charging limits specified in the manufacturer's specification.	P
5.5	Terminal contacts		P

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Clause	Requirement + Test	Result - Remark	Verdict
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current	DC connector complied with the requirement.	P
	External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance	Complied	P
	Terminal contacts are arranged to minimize the risk of short-circuit		P
5.6	Assembly of cells into batteries		P
5.6.1	General		P
	Each battery have an independent control and protection for current, voltage, temperature and any other parameter required for safety and to maintain the cells within their operating region	Protective circuit equipped on battery.	P
	This protection may be provided external to the battery such as within the charger or the end devices		N/A
	If protection is external to the battery, the manufacturer of the battery provide this safety relevant information to the external device manufacturer for implementation		N/A
	If there is more than one battery housed in a single battery case, each battery have protective circuitry that can maintain the cells within their operating regions	13S6P	P
	Manufacturers of cells specify current, voltage and temperature limits so that the battery manufacturer/designer may ensure proper design and assembly	Current, Voltage and temperature limits specified by cell manufacturer	P
	Batteries that are designed for the selective discharge of a portion of their series connected cells incorporate circuitry to prevent operation of cells outside the limits specified by the cell manufacturer		N/A
	Protective circuit components added as appropriate and consideration given to the end-device application		P
	The manufacturer of the battery provide a safety analysis of the battery safety circuitry with a test report including a fault analysis of the protection circuit under both charging and discharging conditions confirming the compliance.	Safety analysis report provided by manufacturer	P
5.6.2	Design recommendation		P
	For the battery consisting of a single cell or a single cellblock, it is recommended that the charging voltage of the cell does not exceed the upper limit of the charging voltage specified in Table 2		N/A

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IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	For the battery consisting of series-connected plural single cells or series-connected plural cellblocks, it is recommended that the voltages of any one of the single cells or single cellblocks does not exceed the upper limit of the charging voltage, specified in Table 2, by monitoring the voltage of every single cell or the single cellblocks	Battery Max. charging voltage: 4.25V/ cell, not exceed 4.25V specified by manufacturer in Table 2.	P
	For the battery consisting of series-connected plural single cells or series-connected plural cellblocks, it is recommended that charging is stopped when the upper limit of the charging voltage is exceeded for any one of the single cells or single cellblocks by measuring the voltage of every single cell or the single cellblocks		N/A
	For batteries consisting of series-connected cells or cell blocks, nominal charge voltage not be counted as an overcharge protection		P
	For batteries consisting of series-connected cells or cell blocks, cells have closely matched capacities, be of the same design, be of the same chemistry and be from the same manufacturer		P
	It is recommended that the cells and cell blocks not discharged beyond the cell manufacturer's specified final voltage	Final voltage of cell assembled in the battery: 2.75V, not exceed the final voltage specified by cell manufacturer.	P
	For batteries consisting of series-connected cells or cell blocks, cell balancing circuitry incorporated into the battery management system		N/A
5.6.3	Mechanical protection for cells and components of batteries		P
	Mechanical protection for cells, cell connections and control circuits within the battery provided to prevent damage as a result of intended use and reasonably foreseeable misuse	Mechanical protection for cell connections and control circuits provided.	P
	The mechanical protection can be provided by the battery case or it can be provided by the end product enclosure for those batteries intended for building into an end product	Build-in batteries, mechanical protection for cells should be provided by end product.	N/A
	The battery case and compartments housing cells designed to accommodate cell dimensional tolerances during charging and discharging as recommended by the cell manufacturer	To be evaluated in final system	N/A
	For batteries intended for building into a portable end product, testing with the battery installed within the end product considered when conducting mechanical tests		N/A
5.7	Quality plan		P

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Clause	Requirement + Test	Result - Remark	Verdict
	The manufacturer prepares and implements a quality plan that defines procedures for the inspection of materials, components, cells and batteries and which covers the whole process of producing each type of cell or battery	Complied. Quality plan provided.	P
5.8	Battery safety components		P
	According annex F	See TABLE: Critical components information	N/A

6	TYPE TEST AND SAMPLE SIZE		P
	Tests are made with the number of cells or batteries specified in Table 1 using cells or batteries that are not more than six months old		P
	The internal resistance of coin cells are measured in accordance with Annex D. Coin cells with internal resistance less than or equal to 3 Ω are tested in accordance with Table 1	Not coin cells	N/A
	Unless otherwise specified, tests are carried out in an ambient temperature of 20 °C $\pm$ 5 °C		P
	The safety analysis of 5.6.1 identify those components of the protection circuit that are critical for short-circuit, overcharge and over discharge protection		P
	When conducting the short-circuit test, consideration is given to the simulation of any single fault condition that is likely to occur in the protecting circuit that would affect the short-circuit test	See clause 7.3.2	P

7	SPECIFIC REQUIREMENTS AND TESTS		P
7.1	Charging procedure for test purposes		P
7.1.1	First procedure		P
	This charging procedure applies to sub clauses other than those specified in 7.1.2		P
	Unless otherwise stated in this document, the charging procedure for test purposes is carried out in an ambient temperature of 20 °C $\pm$ 5 °C, using the method declared by the manufacturer	See page 6	P
	Prior to charging, the battery have been discharged at 20 °C $\pm$ 5 °C at a constant current of 0,2 It A down to a specified final voltage	See page 6	P
7.1.2	Second procedure		P
	This charging procedure applies only to 7.3.1, 7.3.4, 7.3.5, and 7.3.9		P

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IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	After stabilization for 1 h to 4 h, at an ambient temperature of the highest test temperature and the lowest test temperature, respectively, as specified in Table 2, cells are charged by using the upper limit charging voltage and maximum charging current, until the charging current is reduced to 0,05 It A, using a constant current to constant voltage charging method	Charge temperature 0-45°C declared. 45°C used for upper limit tests; 0°C used for lower limit tests.	P
7.2	Intended use		P
7.2.1	Continuous charging at constant voltage (cells)	Tested complied.	P
	Fully charged cells are subjected for 7 days to a charge using the charging method for current and standard voltage specified by the cell manufacturer	Charging for 7 days with 520mA.	P
	Results: No fire. No explosion. No leakage	(See appended table 7.2.1)	P
7.2.2	Case stress at high ambient temperature (battery)	Tested as client requested.	P
	Oven temperature (°C).....	70°C	—
	Results: No physical distortion of the battery case resulting in exposure of internal protective components and cells	No physical distortion of the battery case resulting	P
7.3	Reasonably foreseeable misuse		P
7.3.1	External short-circuit (cell)	Tested complied.	P
	The cells were tested until one of the following occurred:		P
	- 24 hours elapsed; or		N/A
	- The case temperature declined by 20% of the maximum temperature rise		P
	Results: No fire. No explosion	(See appended table 7.3.1)	P
7.3.2	External short-circuit (battery)	Tested complied.	P
	The batteries were tested until one of the following occurred:		P
	- 24 hours elapsed; or		P
	- The case temperature declined by 20 % of the maximum temperature rise		N/A
	In case of rapid decline in short circuit current, the battery pack remained on test for an additional one hour after the current reached a low end steady state condition		N/A
	A single fault in the discharge protection circuit conducted on one to four (depending upon the protection circuit) of the five samples before conducting the short-circuit test	Single fault conducted on four samples.	P
	A single fault applies to protective component parts such as MOSFET, fuse, thermostat or positive temperature coefficient (PTC) thermistor	Single fault applies on MOSFET (T1) or FUSE (F2) .	P

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IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
	Results: No fire. No explosion	(See appended table 7.3.2)	P
7.3.3	Free fall	Tested complied.	P
	Results: No fire. No explosion	No fire. No explosion.	P
7.3.4	Thermal abuse (cells)	Tested complied.	P
	Oven temperature (°C)..... :	130°C	—
	Results: No fire. No explosion	No fire. No explosion	P
7.3.5	Crush (cells)	Tested complied.	P
	The crushing force was released upon:		P
	- The maximum force of 13 kN±0,78kN has been applied; or		P
	- An abrupt voltage drop of one-third of the original voltage has been obtained		N/A
	Results: No fire. No explosion:	(See appended table 7.3.5)	P
7.3.6	Over-charging of battery	Tested complied.	P
	The supply voltage which is:		P
	- 1,4 times the upper limit charging voltage presented in Table A.1 (but not to exceed 6,0 V) for single cell/cell block batteries or		N/A
	- 1,2 times the upper limit charging voltage resented in Table A.1 per cell for series connected multi-cell batteries, and	66.3V applied.	P
	- Sufficient to maintain a current of 2,0 It A throughout the duration of the test or until the supply voltage is reached		P
	Test was continued until the temperature of the outer casing:		P
	- Reached steady state conditions (less than 10°C change in 30-minute period); or		P
	- Returned to ambient		N/A
	Results: No fire. No explosion:	(See appended table 7.3.6)	P
7.3.7	Forced discharge (cells)	Tested complied.	P
	Discharge a single cell to the lower limit discharge voltage specified by the cell manufacturer	Lower limit discharge voltage 2.75V.	P
	The discharged cell is then subjected to a forced discharge at 1 It A to the negative value of the upper limit charging voltage		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- The discharge voltage reaches the negative value of upper limit charging voltage within the testing duration. The voltage is maintained at the negative value of the upper limit charging voltage by reducing the current for the remainder of the testing duration		N/A
	- The discharge voltage does not reach the negative value of upper limit charging voltage within the testing duration. The test is terminated at the end of the testing duration		P
	Results: No fire, No explosion	(See appended table 7.3.7)	P
7.3.8	Mechanical tests (batteries)		P
7.3.8.1	Vibration	Tested complied.	P
	Results: No fire, no explosion, no rupture, no leakage or venting.	(See appended table 7.3.8.1)	P
7.3.8.2	Mechanical shock	Tested complied.	P
	Results: No leakage, no venting, no rupture, no explosion and no fire	(See appended table 7.3.8.2)	P
7.3.9	Design evaluation – Forced internal short-circuit (cells)		N/A
	The cells complied with national requirement for..... :	Not requested by client, not comply with the requirements of France, Japan, Republic of Korea and Switzerland.	—
	The pressing was stopped upon:		N/A
	- A voltage drop of 50 mV has been detected; or		N/A
	- The pressing force of 800 N (cylindrical cells) or 400 N (prismatic cells) has been reached		N/A
	Results: No fire		N/A
8	INFORMATION FOR SAFETY		P
8.1	General		P
	Manufacturers of secondary cells provides information about current, voltage and temperature limits of their products	Information for safety mentioned in manufacturer's specifications.	P
	Manufacturers of batteries provides information regarding how to minimize and mitigate hazards to equipment manufacturers or end-users	Information for safety mentioned in manufacturer's specifications.	P
	Systems analyses are performed by device manufacturers to ensure that a particular battery design prevents hazards from occurring during use of a product		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	As appropriate, any information relating to hazard avoidance resulting from a system analysis is provided to the end user		N/A
8.2	Small cell and battery safety information	Not small cells. Not small batteries.	N/A
	The following warning language is to be provided with the information packaged with the small cells and batteries or equipment using them:		N/A
	- Keep small cells and batteries which are considered swallow able out of the reach of children		N/A
	- Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2 h of ingestion		N/A
	- In case of ingestion of a cell or battery, seek medical assistance promptly		N/A
9	MARKING		P
9.1	Cell marking	The final product is battery.	N/A
	Cells marked as specified in IEC 61960, except coin cells		N/A
	Coin cells whose external surface area is too small to accommodate the markings on the cells show the designation and polarity		N/A
	By agreement between the cell manufacturer and the battery and/or end product manufacturer, component cells used in the manufacture of a battery need not be marked		N/A
9.2	Battery marking		P
	Batteries marked as specified in IEC 61960, except for coin batteries	See marking plate on page 5.	P
	Coin batteries whose external surface area is too small to accommodate the markings on the batteries show the designation and polarity	Not coin batteries.	N/A
	Batteries are marked with an appropriate caution statement		P
	- Terminals have clear polarity marking on the external surface of the battery, or		N/A
	- Not be marked with polarity markings if the design of the external connector prevents reverse polarity connections	Special designed connector used. Also the connector construction designed wrong polarity insert prevented.	P

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IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
9.3	Caution for ingestion of small cells and batteries		N/A
	Coin cells and batteries identified as small batteries include a caution statement regarding the hazards of ingestion in accordance with 8.2	Not coin cells. Not coin batteries.	N/A
	Small cells and batteries are intended for direct sale in consumer-replaceable applications, caution for ingestion is given on the immediate package	Not intended to direct sale.	N/A
9.4	Other information		P
	The following information are marked on or supplied with the battery:	Information for storage and disposal instructions mentioned in manufacturer's specifications.	P
	- Storage and disposal instructions		P
	- Recommended charging instructions		P
10	PACKAGING AND TRANSPORT		N/A
	Packaging for coin cells are not be small enough to fit within the limits of the ingestion gauge of Figure 3	Not coin cells.	N/A

ANNEX A	CHARGING AND DISCHARGING RANGE OF SECONDARY LITHIUM ION CELLS FOR SAFE USE		P
A.1	General		P
A.2	Safety of lithium ion secondary battery	Complied.	P
A.3	Consideration on charging voltage	Complied.	P
A.3.1	General		P
A.3.2	Upper limit charging voltage	4.25V	P
A.3.2.1	General		P
A.3.2.2	Explanation of safety viewpoint		P
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied	4.25V applied.	P
A.4	Consideration of temperature and charging current		P
A.4.1	General		P
A.4.2	Recommended temperature range	See A.4.2.2.	P
A.4.2.1	General		P
A.4.2.2	Safety consideration when a different recommended temperature range is applied	Charging temperature declared by client is: 0~45°C.	N/A
A.4.3	High temperature range		N/A

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PTC25052402901B-IE01V01

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
A.4.3.1	General		N/A
A.4.3.2	Explanation of safety viewpoint		N/A
A.4.3.3	Safety considerations when specifying charging conditions in the high temperature range		N/A
A.4.3.4	Safety considerations when specifying a new upper limit in the high temperature range		N/A
A.4.4	Low temperature range		N/A
A.4.4.1	General		N/A
A.4.4.2	Explanation of safety viewpoint		N/A
A.4.4.3	Safety considerations, when specifying charging conditions in the low temperature range		N/A
A.4.4.4	Safety considerations when specifying a new lower limit in the low temperature range		N/A
A.4.5	Scope of the application of charging current		P
A.4.6	Consideration of discharge		P
A.4.6.1	General		P
A.4.6.2	Final discharge voltage and explanation of safety viewpoint	Specified final voltage of the cell assembled in the battery is 2.75V, not exceed 2.75V specified by cell manufacturer.	P
A.4.6.3	Discharge current and temperature range		P
A.4.6.4	Scope of application of the discharging current		P
A.5	Sample preparation		N/A
A.5.1	General		N/A
A.5.2	Insertion procedure for nickel particle to generate internal short		N/A
A.5.3	Disassembly of charged cell		N/A
A.5.4	Shape of nickel particle		N/A
A.5.5	Insertion of nickel particle in cylindrical cell		N/A
A.5.5.1	Insertion of nickel particle in winding core		N/A
A.5.5.2	Marking the position of the nickel particle on both ends of the winding core of the separator		N/A
A.5.6	Insertion of nickel particle in prismatic cell		N/A
A.6	Experimental procedure of the forced internal short-circuit test		N/A
A.6.1	Material and tools for preparation of nickel particle		N/A

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PTC25052402901B-IE01V01

IEC 62133-2			
Clause	Requirement + Test	Result - Remark	Verdict
A.6.2	Example of a nickel particle preparation procedure		N/A
A.6.3	Positioning (or placement) of a nickel particle		N/A
A.6.4	Damaged separator precaution		N/A
A.6.5	Caution for rewinding separator and electrode		N/A
A.6.6	Insulation film for preventing short-circuit		N/A
A.6.7	Caution when disassembling a cell		N/A
A.6.8	Protective equipment for safety		N/A
A.6.9	Caution in the case of fire during disassembling		N/A
A.6.10	Caution for the disassembling process and pressing the electrode core		N/A
A.6.11	Recommended specifications for the pressing device		N/A
ANNEX B	RECOMMENDATIONS TO EQUIPMENT MANUFACTURERS AND BATTERY ASSEMBLERS		N/A
ANNEX C	RECOMMENDATIONS TO THE END-USERS		N/A
ANNEX D	MEASUREMENT OF THE INTERNAL AC RESISTANCE FOR COIN CELLS		N/A
D.1	General	Not coin cells	N/A
D.2	Method		N/A
	A sample size of three coin cells is required for this measurement		N/A
	Coin cells with an internal resistance greater than 3 Ω require no further testing..... :		N/A
	Coin cells with an internal resistance less than or equal to 3 Ω are subjected to the testing according to Clause 6 and Table 1		N/A
ANNEX E	PACKAGING AND TRANSPORT		N/A
ANNEX F	COMPONENT STANDARDS REFERENCES		N/A

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7.2.1	TABLE: Continuous charging at constant voltage (cells)				P
Sample no.	Recommended charging voltage V _c (Vdc)	Recommended charging current I _{rec} (mA)	OCV before test (Vdc)	Results	
Cell #1	4.20	520	4.18	P	
Cell #2	4.20	520	4.19	P	
Cell #3	4.20	520	4.19	P	
Cell #4	4.20	520	4.18	P	
Cell #5	4.20	520	4.18	P	
Supplementary information: - No fire or explosion - No leakage					

7.3.1	TABLE: External short-circuit (cell)					P
Sample no.	Ambient T (°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ΔT, (°C)	Results	
Samples charged at charging temperature upper limit (45°C)						
Cell #6	55.4	4.22	85	84.3	P	
Cell #7	55.4	4.23	81	85.5	P	
Cell #8	55.4	4.22	87	85.8	P	
Cell #9	55.4	4.20	81	85.1	P	
Cell #10	55.4	4.22	76	88.1	P	
Samples charged at charging temperature lower limit (0°C)						
Cell #11	55.4	4.13	80	75.9	P	
Cell #12	55.4	4.13	82	74.3	P	
Cell #13	55.4	4.14	75	75.4	P	
Cell #14	55.4	4.13	83	79.6	P	
Cell #15	55.4	4.13	82	78.2	P	
Supplementary information: - No fire or explosion						

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7.3.2	TABLE: External short-circuit (battery)					P
Sample no.	Ambient(°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ΔT , (°C)	Component single fault condition	Results
Battery #4	23.3	54.11	75	24.2	MOSFET (T1) Short circuit	P
Battery #5	23.3	54.02	76	23.9	MOSFET (T1) Short circuit	P
Battery #6	23.3	54.11	86	24.3	FUSE (F2) Short circuit	P
Battery #7	23.3	54.14	81	24.0	FUSE (F2) Short circuit	P
Battery #8	23.3	53.96	84	23.6	--	P
Supplementary information: - No fire or explosion						

7.3.5	TABLE: Crush (cells)				P
Sample no.	OCV before test (Vdc)	OCV at removal of crushing force (Vdc)	Maximum force applied to the cell during crush (kN)	Results	
Samples charged at charging temperature upper limit (45°C)					
Cell #29	4.23	4.22	13	P	
Cell #30	4.22	4.22	13	P	
Cell #31	4.20	4.19	13	P	
Cell #32	4.22	4.22	13	P	
Cell #33	4.22	4.21	13	P	
Samples charged at charging temperature lower limit (0°C)					
Cell #34	4.14	4.13	13	P	
Cell #35	4.14	4.14	13	P	
Cell #36	4.13	4.13	13	P	
Cell #37	4.13	4.12	13	P	
Cell #38	4.13	4.13	13	P	
Note: A 13kN force applied at the longitudinal axis of the cylindrical cells. No voltage abrupt occurred.					
Supplementary information:					
- No fire or explosion					

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7.3.6	TABLE: Over-charging of battery				P
Constant charging current (A)			31.2		—
Supply voltage (Vdc).....			66.3		—
Sample no.	OCV before charging (Vdc)	Total charging time (minute)	Maximum outer case temperature (°C)	Results	
Battery #12	40.04	95	23.9	P	
Battery #13	38.41	95	23.4	P	
Battery #14	40.24	95	23.8	P	
Battery #15	39.23	95	23.6	P	
Battery #16	40.18	95	23.7	P	
Supplementary information:					
- No fire or explosion					

7.3.7	TABLE: Forced discharge (cells)				P
Sample no.	OCV before application of reverse charge (Vdc)	Measured reverse charge I _t (mA)	Lower limit discharge voltage (Vdc)	Results	
Cell #39	3.02	2600	2.75	P	
Cell #40	3.01	2600	2.75	P	
Cell #41	3.13	2600	2.75	P	
Cell #42	3.07	2600	2.75	P	
Cell #43	3.18	2600	2.75	P	
Supplementary information:					
- No fire or explosion					

7.3.8.1	TABLE: Vibration					P
Sample no.	OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (kg)	Mass after test (kg)	Results	
Battery #17	54.03	54.03	3.981	3.981	P	
Battery #18	53.99	53.98	3.986	3.985	P	
Battery #19	54.12	54.10	3.984	3.983	P	
Supplementary information:						
- No fire or explosion - No rupture - No leakage - No venting						

TRF No. IEC62133_2C

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7.3.8.2	TABLE: Mechanical shock					P
Sample no.	OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (kg)	Mass after test (kg)	Results	
Battery #20	53.93	53.93	3.985	3.984	P	
Battery #21	53.95	53.94	3.981	3.981	P	
Battery #22	54.01	54.00	3.982	3.981	P	
Supplementary information: - No fire or explosion - No rupture - No leakage - No venting						

7.3.9	TABLE: Forced internal short circuit (cells)					N/A
Sample no.	Chamber ambient T (°C)	OCV before test (Vdc)	Particle location ¹⁾	Maximum applied pressure (N)	Results	
Samples charged at charging temperature upper limit						
Samples charged at charging temperature lower limit						
Supplementary information:						

D.2	TABLE: Internal AC resistance for coin cells				N/A
Sample no.	Ambient T (°C)	Store time (h)	Resistance Rac (Ω)	Results ¹⁾	
Supplementary information:					

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TABLE: Critical components information						P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Cell	HENAN YICHENG YANGGUANG NEW ENERGY CO., LTD	INR18650-26 B	3.7V, 2.6Ah	IEC 62133-2: 2017+A1	Tested with appliance	
- Electrolyte	Guangzhou Tianci High-Tech Material Co., Ltd.	--	LiPF ₆ +EMC+EC+DMC	--	--	
- Separator	SHENZHEN SENIOR TECHNOLOGY MATERIAL CO., LTD	--	PE, Shutdown temperature: 135°C	--	--	
- Positive Electrode	Huannan Changyuan Co., Ltd.	--	LiNi _x Co _y Mn _{1-x-y} O ₂ , Ni: Co: Mn= 5: 2: 3	--	--	
- Negative Electrode	Shanghai Shanshan Technology Co., Ltd.	--	Graphite	--	--	
- Can	Wuxi Xinsheng Power Supply Material Co., Ltd.	--	Steel (nickel plated on the surface)	--	--	
IC (U1)	SINO WEALTH	SH3676014B	Over charge detection voltage: 4.25±0.025V Over discharge detection voltage: 2.70V±0.05V	--	Tested with appliance	
MOSFET (T9)	WUXI CHINA RESOURCES HUAJING MICROELECTRONICS CO., LTD.	CS80N08 A4	V _{DSS} : 85V, V _{GSS} : ±20V, I _D : 80A (T _C =25°C) T _{stg} : -55°C ~150°C	--	Tested with appliance	
MOSFET (T1, T2, T3)	Lonten Semiconductor Co., Ltd.	LSG E085R036	V _{DSS} : 85V, V _{GSS} : ±20V, I _D : 120A (T _C =25°C) T _{stg} : -55°C ~150°C	--	Tested with appliance	
FUSE (F1)	Dongguan Reomax Electronics Technology Co Ltd	STE1600	Rating Current: 5A, Rating Voltage: 125V, Interrupting Rating: 200A	UL 248-1 UL 248-14	UL E340427	
FUSE (F2)	Dongguan Reomax Electronics Technology Co Ltd	R1032T	Rating Current: 40A, Rating Voltage: 125V, Interrupting Rating: 200A	UL 248-1 UL 248-14	UL E340427	
PCB	Shenzhen Xinweisai Electronic Co Ltd	XWS-1a	V-0, 130°C	UL 796	UL E498871	
-PCB (Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL Approved	
Wire (Discharge)	DONGGUAN HAODE WIRE & CABLE TECHNOLOGY CO LTD	3135	14AWG, 200°C, 3000Vdc	UL 758	UL E364036	
-Wire (Discharge) (Alternative)	Interchangeable	Interchangeable	14AWG, 200°C, 3000Vdc	UL 758	UL Approved	

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Wire (Charge)	Huizhou Tongxing Wire and Cable Co Ltd	3239	16AWG, 200°C, 600Vac	UL 758	UL E514976
-Wire (Charge) (Alternative)	Interchangeable	Interchangeable	16AWG, 200°C, 600Vac	UL 758	UL Approved
Connector (Charge)	Changzhou Amass Electronics Co Ltd	XT30U-F	V-0, 120°C	--	Tested with appliance
-Connector (Charge) (Alternative)	Interchangeable	Interchangeable	V-0, 120°C	--	Tested with appliance
Connector (Discharge)	Changzhou Amass Electronics Co Ltd	XT60-F	V-0, 120°C	--	Tested with appliance
-Connector (Discharge) (Alternative)	Interchangeable	Interchangeable	V-0, 120°C	--	Tested with appliance
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance.					

-- End of Report --

TRF No. IEC62133_2C

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Photo Documentation

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Report No. PTC25052402901B-IE01V01

Product: Li-ion Power Battery Pack

Type Designation: RYD48-15.6



Figure 1 Front view of battery



Figure 2 Back view of battery

TRF No. IEC62133_2C

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Photo Documentation

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Report No. PTC25052402901B-IE01V01

Product: Li-ion Power Battery Pack

Type Designation: RYD48-15.6

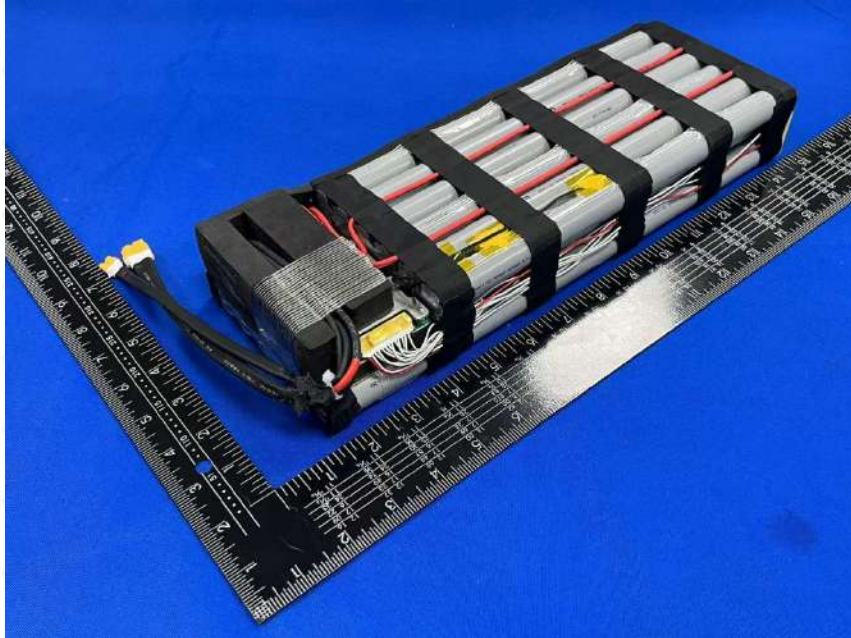


Figure 3 Internal view -1 of battery

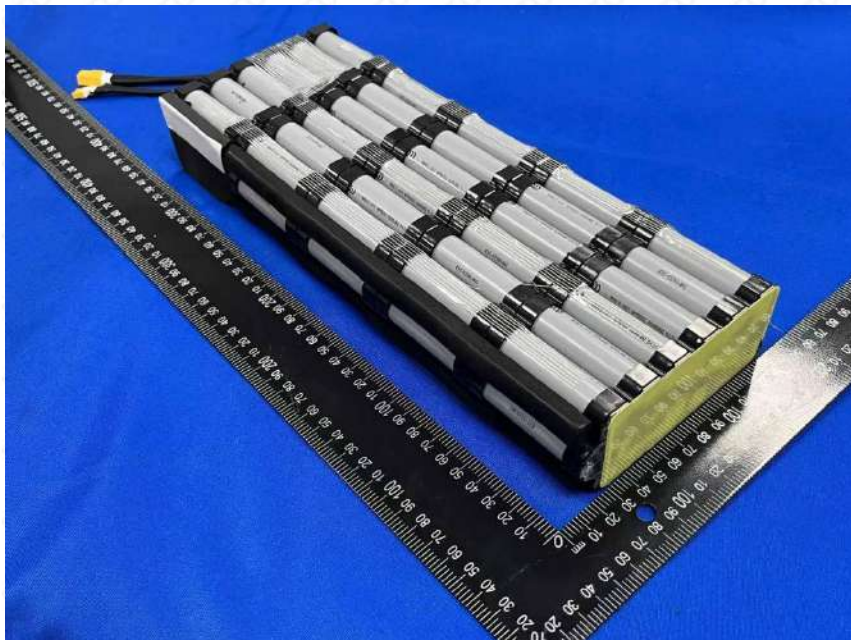


Figure 4 Internal view-2 of battery

TRF No. IEC62133_2C

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Photo Documentation

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Report No. PTC25052402901B-IE01V01

Product: Li-ion Power Battery Pack

Type Designation: RYD48-15.6



Figure 5 Front view of cell

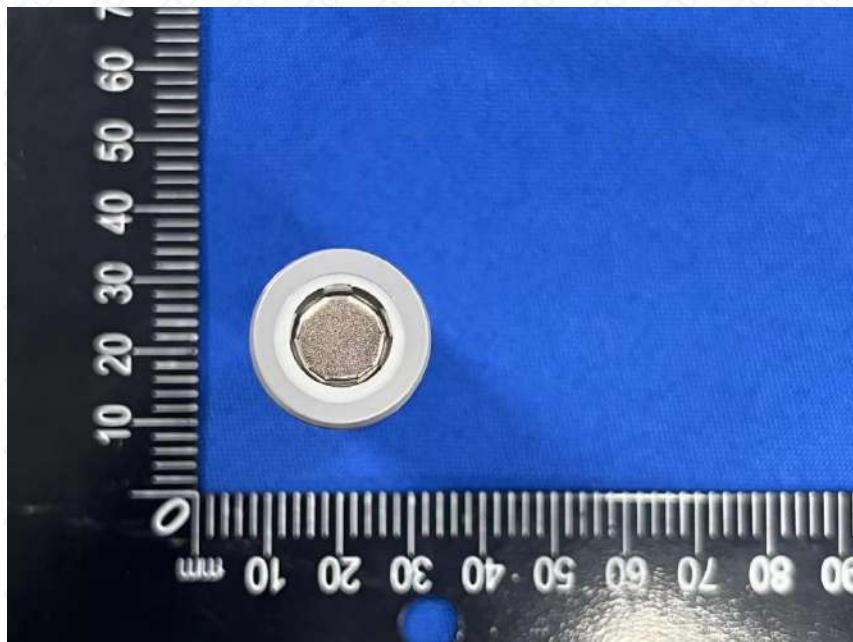


Figure 6 Top view of cell

TRF No. IEC62133_2C

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Photo Documentation

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Report No. PTC25052402901B-IE01V01

Product: Li-ion Power Battery Pack

Type Designation: RYD48-15.6

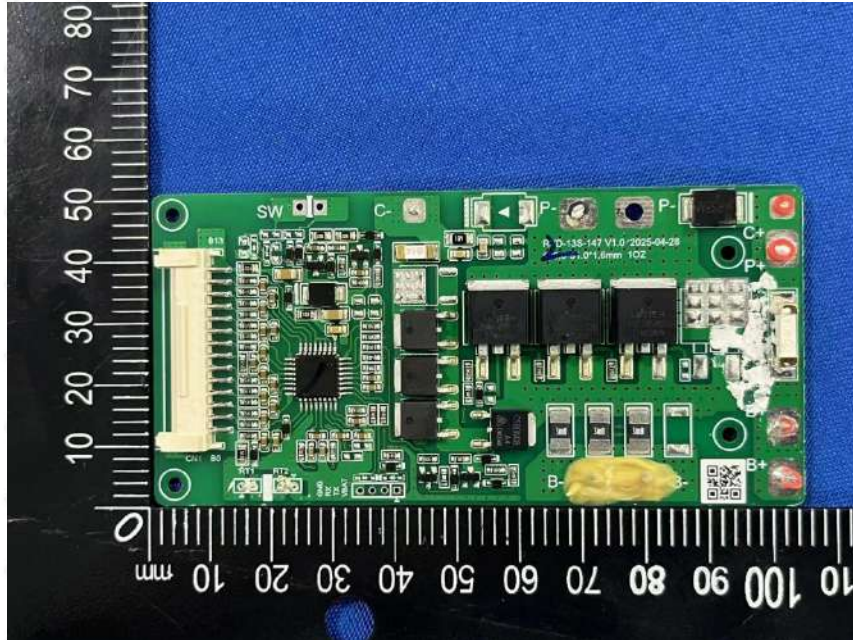


Figure 7 Front view of PCM

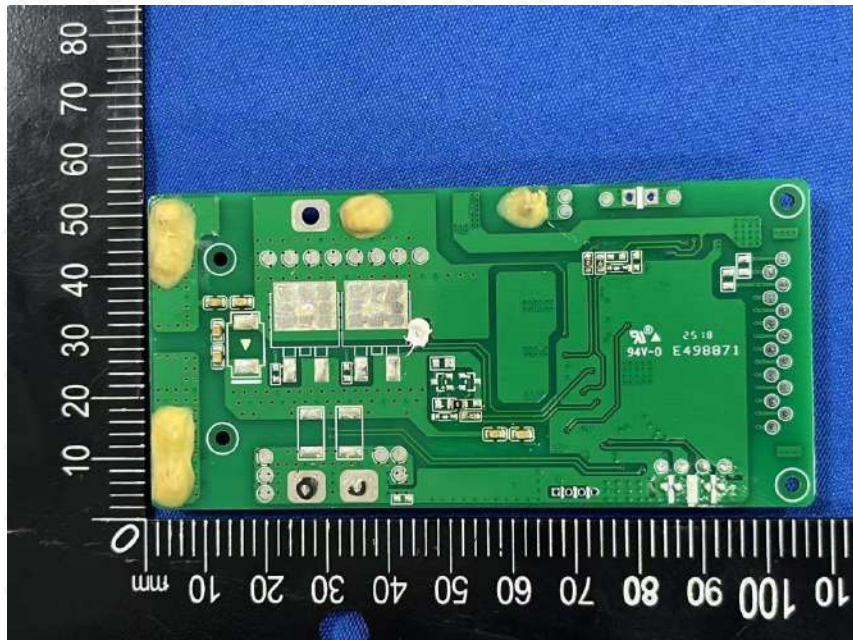


Figure 8 Back view of PCM

TRF No. IEC62133_2C

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Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

TEST REPORT

according to UN-Regulation

**UNIFORM PROVISIONS CONCERNING THE APPROVAL OF INTERNAL
 COMBUSTION ENGINES OR ELECTRIC DRIVE TRAINS INTENDED FOR
 THE PROPULSION OF MOTOR VEHICLES OF CATEGORIES M AND N
 WITH REGARD TO THE MEASUREMENT OF THE NET POWER AND THE
 MAXIMUM 30 MINUTES POWER OF ELECTRIC DRIVE TRAINS**

UN R85

including all amendments until

Series of Amendments: 00

Supplement: 13

Structure of the Test Report

Item No.

0. General information
1. Tested vehicle(s) / object(s)
2. Test record
3. List of appendices
4. Statement of conformity

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

0. General information

- 0.1. Make (trade name of the manufacturer) : Kukirin
- 0.2. Type : G2 Pro
- 0.3. Category of vehicle : Elektrokleinstfahrzeug
- 0.4. Name and address of the manufacturer : BLC Poland SP.Z O.O
ul. Brzozowa, No. 42a, 05-830 Kajetany Nadarzyn, Poland
- 0.5. No. of the information document : ---
- Date of issue : ---
- Date of last change : ---

1. Tested vehicle(s)

1.1. Description

- 1.1.1. ~~Vehicle~~/Object(s) : Motor
- Commercial description : ---
- Type ~~/variant(s)/version(s)~~ : DA/---/ ---
- Identification number : DA250527107803
- 1.1.2. Condition of vehicle(s) : ---
- 1.2. Worst case configuration : No variant/version, no worst case to be selected.
- 1.3. Remark : ---

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

2. Test record

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements.
- 2.1.1. Specifications for the test site : Not applicable
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results : See Appendix 1
- 2.2.1. Test results referring to measurements : All measurement results are listed and referred to the respective limit(s) with judgment.
- 2.2.2. Attributive tests : Not applicable
- 2.2.3. Alternative test provisions : Not applicable
- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
- Test site : TÜV Rheinland (Shanghai) Co., Ltd. Kunshan Branch
Kunshan, P.R.China
- Test date : September 12, 2025
- 2.4. Remarks : ---

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

3. List of Appendices

- | | | |
|---|-----------------------|---------------|
| 0 | List of modifications | : Page 5 |
| 1 | Test minutes | : Pages 6 - 9 |

4. Statement of conformity

The Information Document listed in section 0.5., and the type described therein, comply with the requirements stated on page 1. The test results in this report refer to the vehicle(s)/object(s) described under section 1.1. With regards to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

Engineering Center, Shanghai, September 25, 2025
LJZ/JW



Liangjun Zhang
Technical Expert Technical Service



Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

List of modifications Appendix 0

Correction of	: - ---
Modification of	: - ---
Addition of	: - ---
Deletion of	: - ---

\$20 P605*00

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

Test minutes of Motor measuring**Appendix 1**

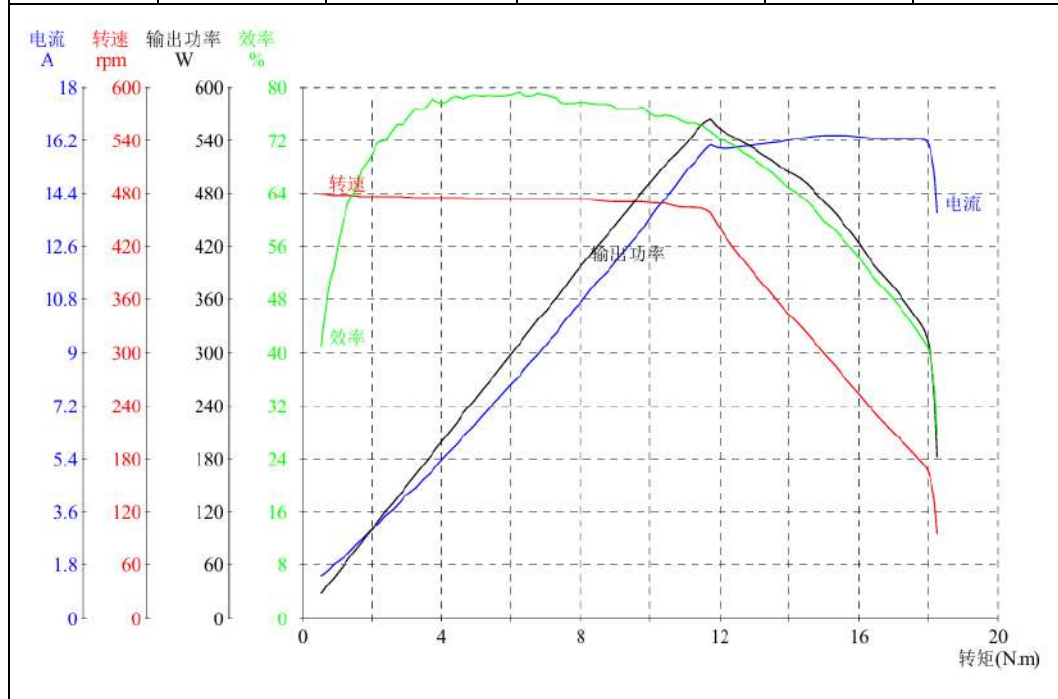
- 0. Test condition
 - 0.1. Test date : September 12, 2025
 - 0.2. Test site : Kunshan, P.R. China
- 1. Test facilities : The test equipment used was in compliance with the requirements of the regulation.
- 2. Test vehicle(s)
 - 2.1. Type : G2 Pro
 - variant : ---
 - version : ---
- 3. Motor
 - 3.1. Motor make : DAAO ELECTRIC(JIANGSU) CO., LTD.
 - 3.2. Motor type : DA
 - 3.3. Motor number : DA250527107803
 - 3.4. Test voltage : 48V
- 4. Power controller
 - 4.1. Power controller make : TIAN JIN SANTROLL ELECTRIC TECHNOLOGY Co., Ltd.
 - 4.2. Power controller type : FE-G2-PRO-ABE
- 5. Characteristics of the dynamometer
 - 5.1. Make : KONZON
 - 5.2. Type : ZFZ100

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

6. Detailed results of measurement

6.1. Net torque and power :

Measured				Corrected	
Motor Speed	Torque	Power	Power to be added for auxiliary equipment	Net Torque	Net Power
r/min	Nm	W	W	Nm	W
477.8	1.27	63.43	0	1.27	63.43
475.7	3.27	163.0	0	3.27	163.0
474.4	5.38	267.0	0	5.38	267.0
473.7	7.34	363.8	0	7.34	363.8
470.3	9.34	459.9	0	9.34	459.9
468.7	10.42	511.5	0	10.42	511.5
457.7	11.76	563.4	0	11.76	563.4
419.1	12.41	544.6	0	12.41	544.6
388.3	13.04	530.0	0	13.04	530.0
348.9	13.86	506.2	0	13.86	506.2
319.5	14.61	488.7	0	14.61	488.7
289.8	15.24	462.5	0	15.24	462.5
257.4	15.94	429.5	0	15.94	429.5
226.7	16.56	393.2	0	16.56	393.2
196.6	17.34	357.0	0	17.34	357.0
167.6	18.06	316.8	0	18.06	316.8
144.7	18.20	275.8	0	18.20	275.8



Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

6.2. Maximum 30 minutes power :

Time [min]	P [W]	rpm	Difference [%]
0	499.8	466.4	0.00
5	496.6	465.0	-0.64
10	495.6	463.5	-0.84
15	494.6	463.5	-1.04
20	494.3	462.7	-1.10
25	494.1	464.3	-1.14
30	493.5	463.4	-1.26
Average	495.5	464.1	

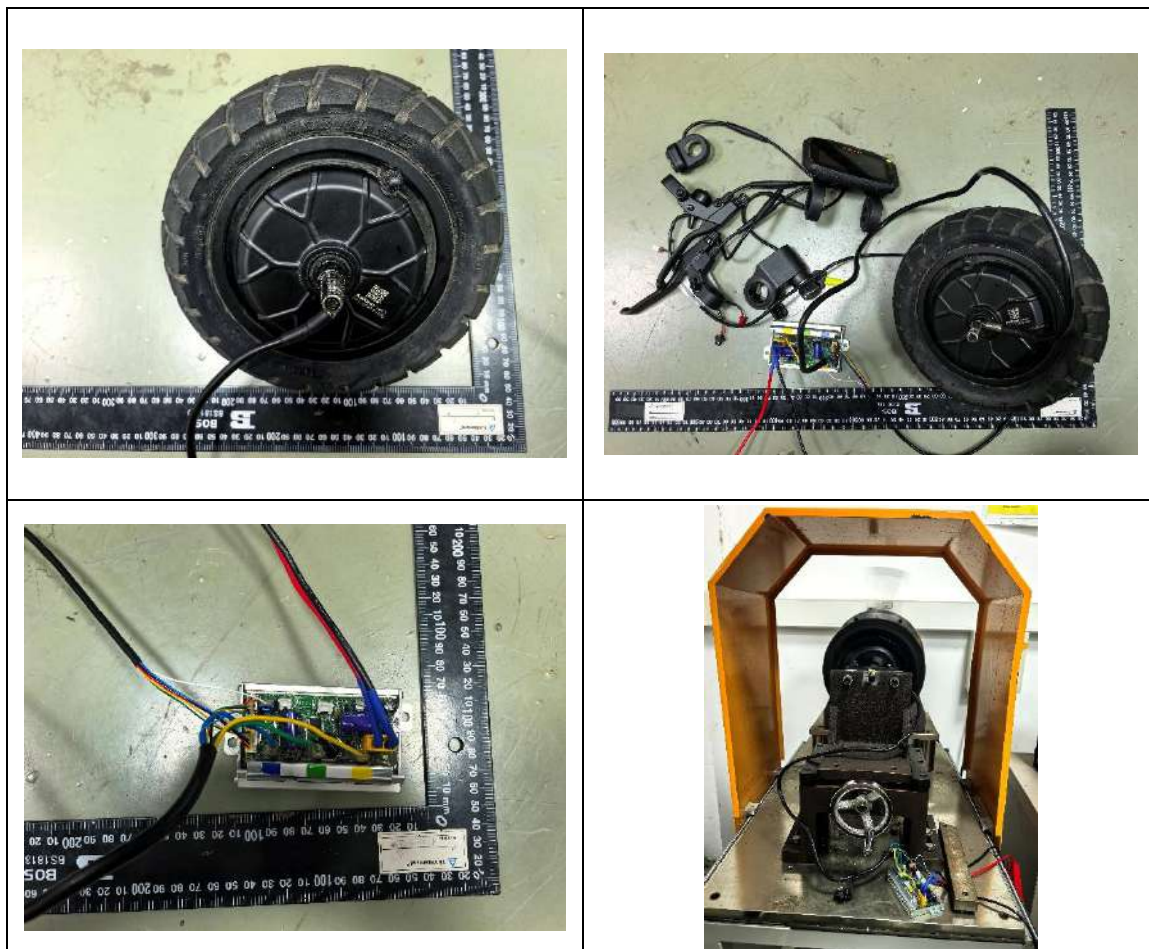
6.2.1. Motor speed : 464 rpm
 (Declared by the manufacturer)

6.2.2. Maximum 30 minutes power : 500 W
 (Declared by the manufacturer)

6.2.3. Maximum 30 minutes power : 495.5 W (99.10% of the declared power)
 (Test result)

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

Test photos:



\$20 P605*00

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

TEST REPORT

according to UN-Regulation
**UNIFORM PROVISIONS CONCERNING THE APPROVAL OF VEHICLES
 WITH REGARD TO
 ELECTROMAGNETIC COMPATIBILITY**

UN R10

including all amendments until

Series of Amendments: 06

Supplement: 03

applicable for vehicles according to
Elektrokleinstfahrzeuge-Verordnung (eKFV)
(§ 7 No. 2)

Structure of the Test Report	Item No.
	0. General information
	1. Tested vehicle(s) object(s)
	2. Test record
	3. List of appendices
	4. Statement of conformity

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

0. General information

- 0.1. Make (trade name of the manufacturer) : Kukirin
- 0.2. Type : G2 Pro
- 0.3. Category of vehicle : Elektrokleinstfahrzeug
- 0.4. Name and address of the manufacturer : BLC Poland SP.Z O.O
ul. Brzozowa, No. 42a, 05-830 Kajetany Nadarzyn, Poland
- 0.5. No. of the information document : ---
- Date of issue : ---
- Date of last change : ---

1. Tested vehicle(s)

- 1.1. Description
- 1.1.1. Vehicle : Elektrokleinstfahrzeug
- Commercial description : ---
- Type / ~~variant(s)~~ / ~~version(s)~~ : G2 Pro / --- / ---
- Identification number : without prototype
- 1.1.2. Condition of vehicle(s) : New
- 1.2. Worst case configuration : No worst case assessment required (~~only one variant/version or no variants/versions~~).
- 1.3. Remark : ---

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

2. Test record

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements.
- 2.1.1. Specifications for the test site : Not applicable
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results : See Appendix 1
- 2.2.1. Test results referring to measurements : All measurement results are listed and referred to the respective limit(s) with judgment.
- 2.2.2. Attributive tests : Not applicable
- 2.2.3. Alternative test provisions : Not applicable
- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
- Test site : Wuxi Test Center of Supervision and Inspection for Product Quality
Wuxi, P.R. China
- Test date : June 27, 2025
- 2.4. Remarks : ---

§20 P605*00

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

3. List of Appendices

- 0 List of modifications : Page 5
- 1 Test minutes : Pages 6 - 13

4. Statement of conformity

The Information Document listed in section 0.5., and the type described therein, comply with the requirements stated on page 1. The test results in this report refer to the vehicle(s)/object(s) described under section 1.1. With regards to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

Engineering Center, Shanghai, September 25, 2025
LJZ/JW



Liangjun Zhang
Technical Expert Technical Service

S20 P605*00

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

List of modifications

Appendix 0

Correction of : - ---

Modification of : - ---

Addition of : - ---

Deletion of : - ---

\$20 P605*00

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

Test minutes of EMC measuring**Appendix 1**

- 0. Test condition
- 0.1. Test date : June 27, 2025
- 0.2. Test site : Wuxi, P.R. China
- 1. Test facilities : The test equipment used was in compliance with the requirements of the regulation.
- 2. Test vehicle(s)
- 2.1. Type : G2 Pro
- variant : ---
- version : ---
- 2.2. Identification number : without prototype
- 2.3. Motor
- 2.3.1 Motor maker : DAAO ELECTRIC(JIANGSU) CO., LTD.
- 2.3.2. Motor type : DA
- 2.3.3. Motor number : DA250527107802
- 2.4. Controller
- 2.4.1. Controller maker : TIAN JIN SANTROLL ELECTRIC TECHNOLOGY Co., Ltd.
- 2.4.2. Controller type : FE-G2-PRO-ABE
- 2.5. Battery
- 2.5.1. Battery maker : Huizhou Ryder New Energy Co., LTD.
- 2.5.2. Battery type : RYD48-15.6, 48V 15.6Ah, 748.8Wh

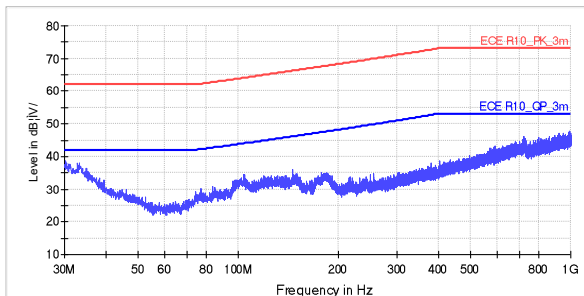
Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

- 2.6. Headlamp
- 2.6.1. Headlamp maker : Foshan City Shunde District Chengdi Electronic Technology Co., Ltd.
- 2.6.2. Headlamp type : DH008-C
- 2.6.3. Approval number : K 1998*01
- 2.7. Rear position lamp
- 2.7.1. Rear position lamp maker : K-Lite(Yuyao) Plastics Co., Ltd.
- 2.7.2. Rear position lamp type : Z108
- 2.7.3. Approval number : E4*148R00/02*29604*00
- 2.8. Stop lamp
- 2.8.1. Stop lamp maker : K-Lite(Yuyao) Plastics Co., Ltd.
- 2.8.2. Stop lamp type : Z108
- 2.8.3. Approval number : E4*148R00/02*29604*00
- 2.9. Front direction indicator
- 2.9.1. Front direction indicator maker : n.a.
- 2.9.2. Front direction indicator type : n.a.
- 2.9.3. Approval number : n.a.
- 2.10. Rear direction indicator
- 2.10.1. Rear direction indicator maker : n.a.
- 2.10.2. Rear direction indicator type : n.a.
- 2.10.3. Approval number : n.a.
- 2.11. Charger
- 2.11.1. Charger maker : JIN XIN YU POWER(SHENZHEN) SUPPLY CO., LTD.
- 2.11.2. Charger type : XSL120-5460200
 Input 100-240VAC, 50/60Hz, MAX 2.5A ; Output 54.6VDC 2.0A

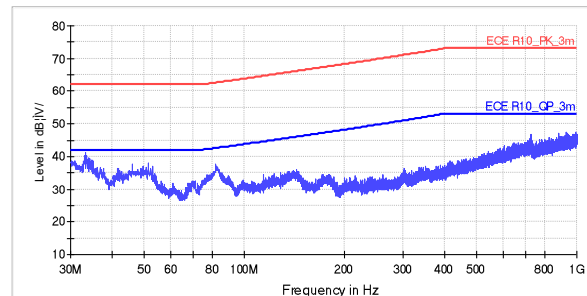
Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

3. Test results of broadband electromagnetic emissions from vehicle (Annex 4) (Other than REESS in charging mode coupled to the power grid)

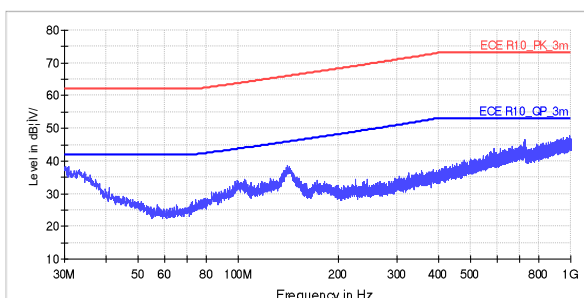
- 3.1. Test condition : Closed installation
- 3.2. Distance of the antenna (m) : 3
- 3.3. Height of the antenna (m) : 1.8
- 3.4. Engine / Motor revolution for radiated broadband emissions : 20 km/h (Maximum speed)



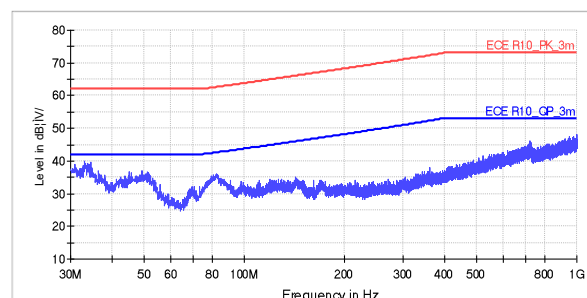
Left hand side antenna horizontal



Left hand side antenna vertical



Right hand side antenna horizontal



Right hand side antenna vertical

The measurement has been taken over the range of frequencies from 30 to 1000 MHz
 The blue scanning beam is PK value

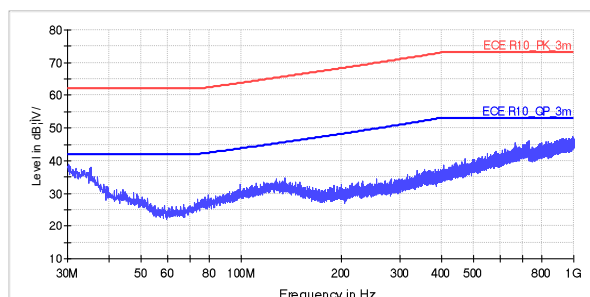
Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

4. Test results of broadband electromagnetic emissions from vehicle (Annex 4) (REESS in charging mode coupled to the power grid)

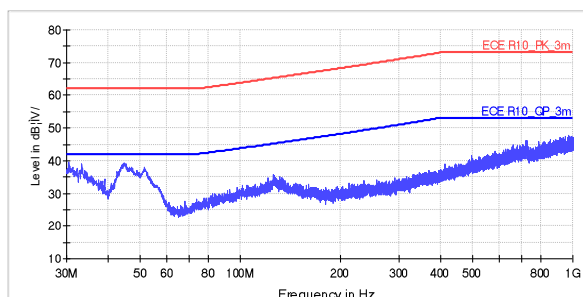
4.1. Test condition : Closed installation

4.2. Distance of the antenna (m) : 3

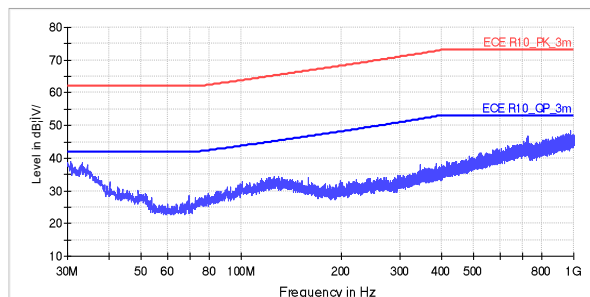
4.3. Height of the antenna (m) : 1.8



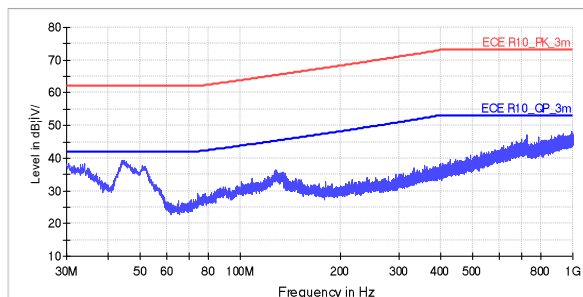
Left hand side antenna horizontal



Left hand side antenna vertical



Right hand side antenna horizontal



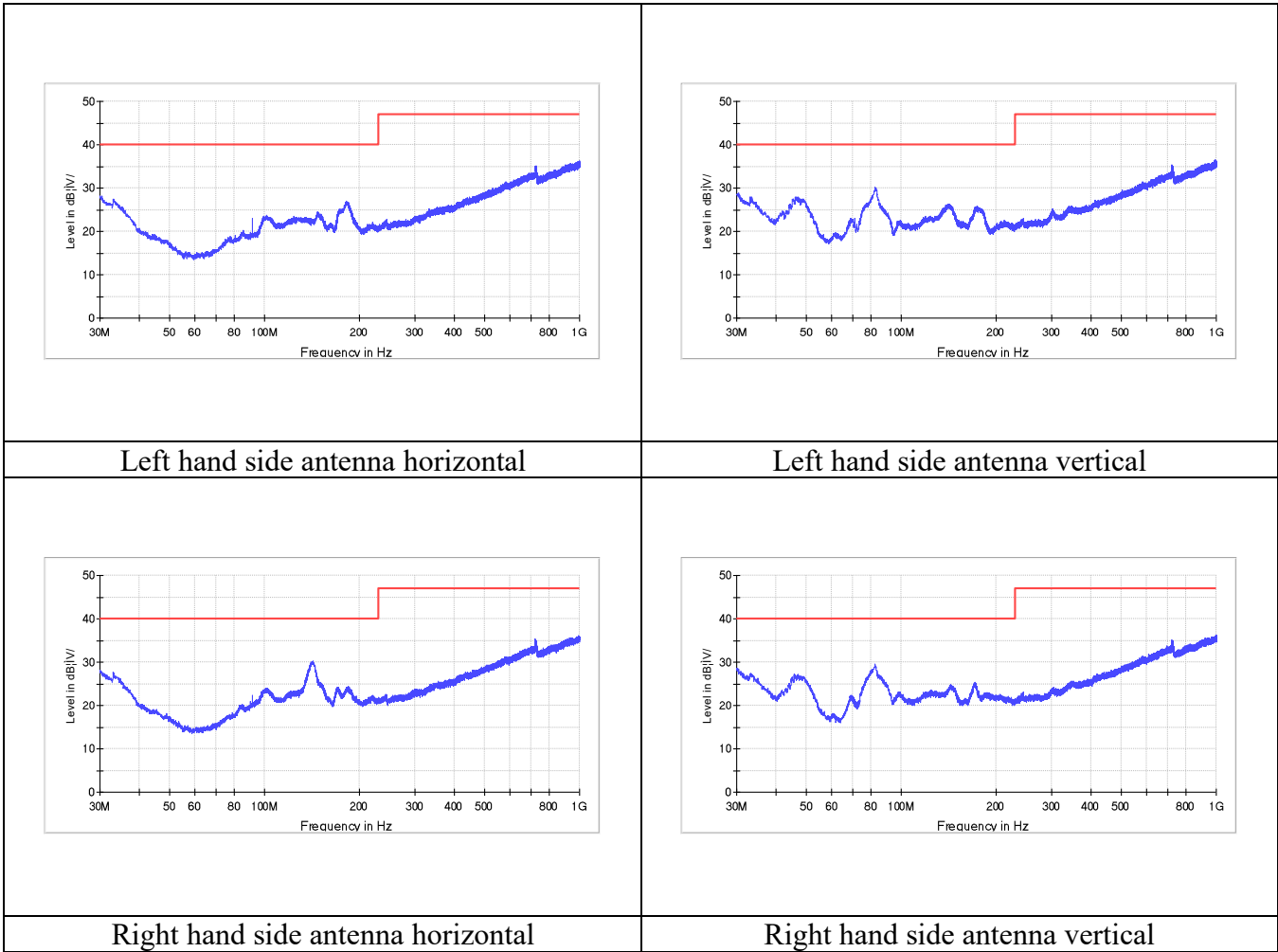
Right hand side antenna vertical

The measurement has been taken over the range of frequencies from 30 to 1000 MHz
 The blue scanning beam is PK value

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

5. Test results of narrowband electromagnetic emissions from vehicle (Annex 5)

- 5.1. Test condition : Closed installation
5.2. Distance of the antenna (m) : 3
5.3. Height of the antenna (m) : 1.8



The measurement has been taken over the range of frequencies from 30 to 1000 MHz
The blue scanning beam is PK value

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O

6. Test results of immunity to electromagnetic radiation (Annex 6)

(Other than REESS in charging mode coupled to the power grid)

- 6.1. Test method : Free field
- 6.2. Specified frequency range : 20 ~ 2000 MHz in vertical polarization
- 6.3. ~~Alternatively spot frequencies : 27, 45, 65, 90, 120, 150, 190, 230, 280, 380, 450, 600, 750, 900, 1300 and 1800 MHz~~
- 6.4. Field strength : 30 V/m rms (over 90% of 20~2000 MHz)
- 6.5. Vehicle speed : 20 km/h (Maximum speed)

During the tests performed in accordance with Annex 6, there was no any degradation of performance of “immunity related functions” listed below.

"50 km/h cycle" vehicle test conditions	Failure criteria
Vehicle speed 50 km/h (respectively 25 km/h for L ₁ , L ₂ vehicles) ±20 per cent (vehicle driving the rollers). If the vehicle is equipped with a cruise control system, it shall be operational.	Speed variation greater than ±10 per cent of the nominal speed. In case of automatic gearbox: change of gear ratio inducing a speed variation greater than ±10 per cent of the nominal speed.
Dipped beams ON (manual mode)	Lighting OFF
Direction indicator on driver's side ON	Frequency change (lower than 0.75 Hz or greater than 2.25 Hz). Duty cycle change (lower than 25 per cent or greater than 75 per cent).
Horn OFF	Unexpected activation of horn
Brake pedal not depressed	Unexpected activation of brake and unexpected activation of stop lights

7. Test results of immunity to electromagnetic radiation (Annex 6)

(REESS in charging mode coupled to the power grid)

All other equipment which can be switched on permanently by the driver or passenger should be OFF. : Pass

Only non-perturbing equipment shall be used while monitoring the vehicle. The vehicle exterior and the passenger compartment shall be monitored to determine whether the requirements of this annex are met (e.g. by using (a) video camera(s), a microphone, etc.) : Pass

There was no any degradation of performance of “immunity related functions” listed below

"REESS in charging mode" vehicle test conditions	Failure criteria
The REESS shall be in charging mode (engine OFF). The REESS state of charge shall be agreed in between the manufacturer and the Technical Service.	Vehicle sets in motion

8. Test result : All pass

Vehicle Type : G2 Pro
Manufacturer : BLC Poland SP.Z O.O



Erklärung des Genehmigungsinhabers über Maßnahmen zur Verhinderung unbefugter Eingriffe in den Antriebsstrang und andere genehmigungsrelevante Bauteile oder Systeme
Approval holder's declaration on measures to prevent tampering on powertrain and other approval relevant components or systems

Der Unterzeichner : Liang Yang / General Manager
The undersigned

(vollständiger Name und Position)
(full name and position)

Firmenname und Anschrift des Genehmigungsinhabers : BLC Poland SP.Z O.O
 ul. Brzozowa, No. 42a, 05-830
Company and address of the approval holder Kajetany Nadarzyn, Poland

Name und Anschrift des Bevollmächtigten des Genehmigungsinhabers (sofern vorhanden) : N.A.
Name and address of the approval holder's representative (if any)

erklärt hiermit, dass er
hereby certifies that

für das nachfolgend bezeichnete Fahrzeug:
for the below mentioned vehicle:

- 0.1. Fabrikmarke** : KuKirin
make
- 0.2. Typ⁽¹⁷⁾** : G2 Pro
Type⁽¹⁷⁾
- 0.2.1. Variante(n)⁽¹⁷⁾ : --
Variant(s)⁽¹⁷⁾
- 0.2.2. Version(en)⁽¹⁷⁾ : --
Version(s)⁽¹⁷⁾
- 0.2.3. Handelsname(n) (sofern vorhanden) : KuKirin G2 Pro
Commercial name(s) (if available)
- 0.3. Klasse des Fahrzeugs** : Elektrokleinstfahrzeug
Class of the vehicle

keine austauschbaren Bauteile in Verkehr bringen wird, die eine Erhöhung der Antriebsleistung oder Höchstgeschwindigkeit, die für die jeweilige Klasse gilt, ermöglichen könnten,

he will not market interchangeable components, which could enable propulsion unit performance or maximum design speed to exceed levels applicable to the relevant category

keine Schnittstellen (z.B. USB oder Bluetooth) implementieren wird, über welche genehmigungsrelevante Bauteilfunktionen oder Systeme (z.B. Bremse oder Motorbedieneinrichtung) unzulässig durch den Anwender beeinflusst werden können
he will not implement any interfaces (e.g. USB or Bluetooth) which allow the consumer to

KuKirin

BLC Poland SP.Z O.O

influence approval relevant component functions or systems (e.g. brake or engine control unit) in an impermissible way

**und
and**

**dass die vom Hersteller erleichterten Änderungen der folgenden Merkmale:
that the manufacturer-facilitated modifications of the following characteristics:**

- (a) gegebenenfalls der Funkenerzeugung durch die Zündanlage;
~~(a) spark delivery of the ignition system if applicable;~~
- (b) der Kraftstoffversorgungsanlage und -förderanlage;
~~(b) fuel feed and delivery system;~~
- (c) des Luftansaugsystems einschließlich Luftfilter (Änderung oder Entfernung);
~~(c) air intake system including air filter(s) (modification or removal);~~
- (d) gegebenenfalls der Ausführung der Antriebsbatterie oder der Stromversorgung des/der Elektromotors/en;
(d) propulsion battery configuration or electric power to the electric motor(s) if applicable;
- (e) des Kraftübertragungsstrangs;
(e) drive-train;
- (f) der Steuereinheit(en) für die Antriebsleistung des Antriebsstrangs
(f) the control unit(s) that controls the propulsion unit performance of the powertrain.

**mit den Anforderungen aus Kapitel 4.2.17 der DIN EN 15194:2018-11 übereinstimmen.
comply with the requirements set out in Chapter 4.2.17 of DIN EN 15194:2018-11.**

Ort:
Place:

Datum:
Date:

Kajetany Nadarzyn, Poland 29. 9. 2025

Unterschrift:
Signature:

Name und Stellung im Unternehmen:
Name and position in the company:

Liang Yang / General Manager

BLC POLAND SP.Z O.O.
ul. Brzozowa 42A
05-830 Kajetany
NIP: 5213989546

Datenbestätigung
für das nachfolgend beschriebene Fahrzeug zum Zwecke der Vorlage
bei der Zulassungsbehörde für die Zulassung des Fahrzeugs, soweit ein Gutachten/Zusatzgutachten für die Zulassung nicht erforderlich ist

Feld	Teil II	Bezeichnung	Daten	
D.1	X	Marke	KuKirin	
D.2	X	Typ	G2Pro	
		Variante	-	
		Version	-	
D.3	X	Handelsbezeichnung(en)	KuKirin G2 Pro	
E	X	Fahrzeug-Identifizierungsnummer	ESG2PR25090001	
F.1		Technisch zulässige Gesamtmasse in kg	142	
F.2		Im Zulassungsmitgliedstaat zulässige Gesamtmasse in kg	142	
G		Masse des in Betrieb befindlichen Fahrzeugs in kg (Leermasse)	22	
J	X	Fahrzeugklasse	27	
K	X	Nummer der EG-Typgenehmigung oder ABE	P605*00	
L		Anzahl der Achsen	2	
O		Technisch zulässige Anhängelast in kg	O.1 gebremst in kg	-
			O.2 ungebremst in kg	-
P.1	X	Hubraum in cm³	-	
P.2	X	Nennleistung in kW	0,50 / -	
P.4		Nenndrehzahl bei min ⁻¹	-	
P.3	X	Kraftstoffart oder Energiequelle	Elektro	
Q		Leistungsgewicht in kW/kg (nur bei Krädern)	-	
R	X	Farbe des Fahrzeugs	-	
S.1		Sitzplätze einschließlich Fahrersitz	-	
S.2		Stehplätze	1	
T		Höchstgeschwindigkeit in km/h	20	
U.1		Standgeräusch in dB (A)	-	
U.2		Drehzahl in min ⁻¹ zu U.1	-	
U.3		Fahrgeräusch in dB (A)	-	
V.7		CO ₂ (in g/km)	-	
V.9		Für die EG-Typgenehmigung maßgebliche Schadstoffklasse	-	
(2)	X	Hersteller-Kurzbezeichnung		
(2.1)	X	Code zu (2)		
(2.2)	X	Code zu (D.2) mit Prüfziffer	Typ/Variante/Variation	
			Prüfziffer	
(3)	X	Prüfziffer zur Fahrzeug-Identifizierungsnummer		
(4)	X	Art des Aufbaus	0003	
(5)	X	Bezeichnung der Fahrzeugklasse und des Aufbaus	Elektrokleinstfz. m. Lenk- o. Haltestange	
(6)	X	Datum zu K		
(7.1)		Technisch zulässige maximale Achslast/Masse je Achsgruppe in kg:	Achse 1	120
(7.2)			Achse 2	120
(7.3)			Achse 3	-
(8.1)		Zulässige maximale Achslast im Zulassungsmitgliedstaat in kg	Achse 1	120
(8.2)			Achse 2	120
(8.3)			Achse 3	-
(9)		Anzahl der Antriebsachsen	1	
(10)	X	Code zu P.3	0004	
(11)	X	Code zu R	-	
(12)		Rauminhalt des Tanks bei Tankfahrzeugen in m³	-	
(13)		Stützlast in kg	-	
(14)		Bezeichnung der nationalen Emissionsklasse	-	
(14.1)		Code zu V.9 oder (14)	-	
(15.1)		Bereifung – Achse 1	9*3.0-5.5	
(15.2)		Bereifung – Achse 2	9*3.0-5.5	
(15.3)		Bereifung – Achse 3	-	
(18)		Länge in mm	1170	
(19)		Breite in mm	590	
(20)		Höhe in mm	1225-1345	
(22)		Bemerkungen und Ausnahmen * Der Fahrzeugführer hat sich vor Fahrtantritt mithilfe der Betriebsanleitung mit dem Fahrzeug vertraut zu machen. Dies gilt insbesondere für erschwerte Fahrsituationen (beispielsweise Bordsteine, steile Rampen, Quer- und Längsrillen etc.). * Das Bedienen des Smartphones während der Fahrt ist nicht gestattet.		
(22a)		-		
(23)	X	Raum für interne Vermerke des Herstellers	-	

Bescheinigung der Angaben durch den Ausstellungsberechtigten:

- Die Richtigkeit der vorstehenden Angaben wird heute bescheinigt.
- Die Übereinstimmung mit der unter Feld K und (6) angegebenen ABE und dem gleichnamigen Typ ggf. nebst Variante/Version bzw. Ausführung wird bestätigt.
- ~~Für die Zulassung ist ein Gutachten/Teilgutachten erforderlich.~~

Datum04.11.2025FirmaUnterschriftLiang Yang

04.11.2025BLC Poland SP.Z O.O.Liang Yang/ General Manager