

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-12001-04-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 23.08.2023

Date of issue: 23.08.2023

This annex is a part of the accreditation certificate D-PL-12004-04-00.

Holder of partial accreditation certificate:

**Industrieanlagen- Betriebsgesellschaft mit beschränkter Haftung
Burghof 1, 33165 Lichtenau**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

Tests in the fields:

Electrical engineering – batteries

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Abbreviations used: see last page

Page 1 of 3

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Annex to the Partial Accreditation Certificate D-PL-12001-04-02

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure	Test Range / Restrictions
Electrical engineering	DIN EN 62133-2; VDE 0510-82 2017-11	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 (IEC 62133-2:2017); German version EN 62133-2:2017	
	DIN EN IEC 62619; VDE 051 0-39 2020-05	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications (IEC 21A/687/CD:2018); Text in German and English	
	ECE-R 100 Rev. 2 1995-10	Un regulation No. 100, Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train	Only Annex 8D „Mechanical integrity” and Annex 8E “Fire resistance
	ECE-R 100 Rev. 2, Amendment 4 2019-05	Un regulation No. 100, Revision 2 - Amendment 4, Supplement 4 to the 02 series of amendments - Date of entry into force: 28 May 2019, Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train	
	ECE-R 100 Rev. 2, Amendment 5 2021-07	Un regulation No. 100, Revision 2 - Amendment 5, 03 series of amendments - Date of entry into force: 9 June 2021, Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train with regard to specific requirements for the electric power train	
	ECE-R 134 2015-06	Un regulation No. 134, Uniform provisions concerning the approval of motor vehicles and their components with regard to the safety-related performance of hydrogen-fuelled vehicles (HFCV)	Only Annex 3, section 5.1 „Fire test“ and 5.2 „Engulfing fire test

Valid from: 23.08.2023

Date of issue: 23.08.2023

Annex to the Partial Accreditation Certificate D-PL-12001-04-02

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure	Test Range / Restrictions
	GB/T 31467.3-2015 2015-05	Lithium-ion traction battery pack and system for electric vehicles - Part 3: Safety requirements and test methods	Only section 7.3 „Drop“, 7.6 „Crush“ and 7.10 „External bonfire“
	KMVSS No. 515 2021-08	Regulations for Motor Vehicle Safety Standards – Traction Battery	Only section 48.6.1 „Drop test“
	SAE J2464:2009-112009 2009	Electric and Hybrid Electric Vehicle Rechargeable Energy Storage System (RESS) Safety and Abuse Testing	Only section 4.3.2 „Drop“, 4.3.3 “Penetration Test (Cell Level or Above)” and 4.3.6 „Crush (Cell Level or Above)”

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
ECE	Economic Commission for Europe
GB/T	Guobiao tuījiàn (chinese national standard)
KMVSS	Korea Motor Vehicle Safety Standards
SAE	Society of Automotive Engineers
UIC	Union internationale de chemins de fer (International Union of Railways)

Valid from: 23.08.2023

Date of issue: 23.08.2023

Page 3 of 3

This document is a translation. The definitive version is the original German annex to the accreditation certificate.