

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate

D-PL-12059-02-01

according to DIN EN ISO/IEC 17025:2018

Valid from: 28.07.2023 **Valid to:** 27.07.2028
Date of issue: 28.07.2023

This annex is a part of the accreditation certificate D-PL-12059-02-00.

Holder of partial accreditation certificate:

TÜV Rheinland Japan Ltd.
Osaka Laboratory
Kansai Technology Center,
1-3-14 Fukae Minami, Higashinari-ku, OSAKA 537-0002, JAPAN

The testing laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed 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.

Safety of Electrical Appliances

Batteries

Environmental testing

Within the scope of accreditation marked with *), 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 procedures 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>.

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Department	Standard/in house procedure/ Version	Title of standard or in house procedure (deviations/modifications of standard)	Test area/ reductions
Product Safety *	IEC 60065:2014 DIN EN 60065:2015-11 VDE 0860:2015-11	Audio, video and similar electronic apparatus - Safety requirements.	
Product Safety *	IEC 60335-1:2020 EN 60335-1:2020 DIN EN 60335-1:2020 VDE 0700-1:2020	Household and similar electrical appliances - Safety - Part 1: General requirements.	
Product Safety *	IEC 60335-2-28:2021-11 EN 60335-2-28:2003 A1 :2008 + A11:2018 DIN EN 60335-2-28:2019 VDE 0700-28:2021	Household and similar electrical appliances - Safety - Part 2-28: Particular requirements for sewing machines.	
Product Safety *	IEC 60335-2-32:2019 EN IEC 60335-2-32:2021 DIN EN 60335-2-32:2022 VDE 0700-32:2022	Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances.	
Product Safety *	IEC 60335-2-45:2002 + A1 :2008 + A2 :2011 EN 60335-2-45:2002 + A1:2008 + A2:2012 DIN EN 60335-2-45:2012-08 VDE 0700-45:2012-08	Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances.	
Product Safety *	IEC 60601-1:2005 + A1:2012 IEC 60601-1:2005/AMD2 EN 60601-1:2006 + A1:2013+A12:2014+A2:2021 DIN EN 60601-1:2013-12 VDE 0750-1:2013-12	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance.	Excluding Annex L: Insulated winding wires for use without interleaved insulation.
Product Safety *	IEC 60601-2-18:2009 EN 60601-2-18:2015 DIN EN 60601-2-18:2016 VDE 0750-2-18:2016	Medical electrical equipment - Part 2-18: Particular requirements for basic safety and essential performance of endoscopic equipment.	

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Product Safety *	IEC 60825-1:2014 EN 60825-1:2014 DIN EN 60825-1:2015-07 VDE 0837-1:2015-07	Safety of laser products - Part 1: Equipment classification and requirements.	
Product Safety *	IEC 60950-1:2005 + A1:2009 + A2:2013 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 DIN EN 60950-1:2011-01 VDE 0805-1:2011-01 AS/NZS 60950.1:2015	Information technology equipment - Safety - Part 1: General requirements.	
Product Safety *	IEC 62368-1:2018 EN 62368-1:2020 + A11:2020 DIN EN 62368-1:2021 VDE 0868-1:2021	Audio/Video, information and communication technology equipment - Part 1: Safety requirements	
Product Safety *	IEC 61010-1:2010 + A1:2016 EN 61010-1:2010 + A1:2019 DIN EN 61010-1:2020 + A1:2022 E VDE 0411-1:2020 + A1:2022	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements.	
Product Safety *	IEC 61010-2-010:2003 EN 61010-2-010:2003 DIN EN 61010-2-010:2004-06 VDE 0411-2-010:2004-06	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials.	
Product Safety *	IEC 61010-2-010:2019 EN 61010-2-010:2020 DIN EN 61010-2-010:2018 VDE 0411-2-010:2018	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials.	

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Product Safety *	IEC 61010-031:2015 + A1:2018 EN 61010-031:2015 + A1:2021 + A11:2021 DIN EN 61010-031:2016-07 VDE 0411-031:2016-07	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test.	
Product Safety *	IEC 61010-2-032:2019 EN 61010-2-032:2021 + A11:2021 DIN EN 61010-2-032:2018 VDE 0411-2-032:2018	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-032: Particular requirements for hand-held and hand manipulated current sensors for electrical test and measurement.	
Product Safety *	IEC 61010-2-040:2020 EN 61010-2-040:2021 DIN EN 61010-2-040:2016 VDE 0411-2-040:2016	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials.	
Product Safety *	IEC 61010-2-081:2019 EN IEC 61010-2-81:2020 DIN EN 61010-2-081:2018-05 VDE 0411-2-081:2018-05	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.	
Product Safety *	IEC 61010-2-101:2018 EN 61010-2-101:2017 DIN EN 61010-2-101:2018-04 VDE 0411-2-101:2018-04	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment.	
Product Safety *	IEC 61010-2-201:2017 EN 61010-2-201:2018 DIN EN IEC 61010-2-201:2020 VDE 0411-2-201:2020	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-201: Particular requirements for control equipment	
Product Safety *	IEC 61558-1:2017 EN IEC 61558-1:2019	Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests.	Limitations: Excluding Annex K

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Product Safety *	IEC 61558-2-1:2021 EN 61558-2-1:2007 DIN EN 61558-2-1:2007-11 VDE 0570-2-1:2007-11	Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications.	
Product Safety *	IEC 61558-2-2:2007 EN 61558-2-2:2007 DIN EN 61558-2-2:2007-11 VDE 0570-2-2:2007-11	Safety of power transformers, power supplies, reactors and similar products - Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers.	
Product Safety *	IEC 61558-2-4:2021 EN 61558-2-4:2009 DIN EN 61558-2-4:2009-12 VDE 0570-2-4:2009-12	Safety of power transformers, power supply units and similar - Part 2-4: Particular requirements for isolating transformers for general use.	
Product Safety	IEC 61558-2-6:2009 EN 61558-2-6:2009 DIN EN 61558-2-6:2010-04 VDE 0570-2-6:2010-04	Safety of power transformers, power supply units and similar - Part 2-6: Particular requirements for safety isolating transformers for general use.	
Product Safety *	IEC 61558-2-7:2007 EN 61558-2-7:2007 DIN EN 61558-2-7:2008-06 VDE 0570-2-7:2008-06	Safety of power transformers, power supplies, reactors and similar products - Part 2-7: Particular requirements and tests for transformers and power supplies for toys.	
Product Safety *	IEC 61558-2-17:1997	Safety of power transformers, power supply units and similar - Part 2-17: Particular requirements for safety isolating transformers for switch mode power supplies.	
Product Safety *	IEC 61558-2-16:2021 EN 61558-2-16:2009 + A1:2013 DIN EN 61558-2-16 (VDE 0570-2-16):2014-06	Safety of power transformers, power supply units and similar - Part 2-16: Particular requirements for safety isolating transformers for switch mode power supplies.	Limitations: See part 1 and excluding annex BB.

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Product Safety *	IEC 61951-1:2017 EN 61951-1:2017 DIN EN 61951-1:2017 VDE 0510-53:2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 1: Nickel-cadmium.	
Product Safety *	IEC 61951-2:2017 EN 61951-2:2017 DIN EN 61951-2:2017 + A1:2022 VDE 0510-31:2017 + A1:2022	Secondary cells and batteries containing alkaline or other non acid electrolytes - Secondary sealed cells and batteries for portable applications - Part 2: Nickelmetal hydride	
Product Safety *	IEC 61960:2011 EN 61960:2011 DIN EN 61960:2012-04	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications.	
Product Safety *	IEC 61960-3:2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 3: Prismatic and cylindrical lithium secondary cells, and batteries made from them.	
Product Safety *	IEC 62087:2011 EN 62087:2012 DIN EN 62087:2013-08 VDE0868-100:2013-08	Methods of measurement for the power consumption of audio, video and related equipment.	
Product Safety *	IEC 62087:2015	Audio, video, and related equipment - Determination of power consumption - Part 1: General	
Product Safety *	IEC 62133-1:2017 EN 62133-1:2017 DIN EN 62133-1 VDE 0510-81:2017-11	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 1: Nickel systems.	
Product Safety *	IEC 62133-2: 2017 + A1:2021 EN 62133-2:2017 + A1:2021 DIN EN 62133-2 + A1:2021 VDE 0510-81:2017-11	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.	

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Product Safety*	IEC 62281:2019+A1:2021 EN IEC 62281:2019+A1:2021 DIN EN IEC 62281:2021 VDE 0509-6:2021	Safety of primary and secondary lithium cells and batteries during transport.	
Product Safety *	IEC 62301:2011	Household electrical appliances - Measurement of standby power.	Limitation: Only single phase measurements
Product Safety *	EN 50564:2011 DIN EN 50564:2011-12 VDE 0705-2301:2011-12	Electrical and electronic household and office equipment - Measurement of low power consumption	Limitation: Only single phase measurements
Product Safety *	IEC 62660-1:2018 EN IEC 62660-1:2019 DIN EN 62660-1:2020 VDE 0510-33:2020	Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 1: Performance testing.	
Product Safety *	IEC 62660-2:2018 EN IEC 62660-2:2019 DIN EN 62660-2:2020 VDE 0510-34:2020	Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 2: Reliability and abuse testing.	
Battery*	UN Regulation No.100 Revision 2: 2013 + A1:2014 + A2:2016 A3:2016+A4:2019 + A5:2021	UN Regulation No. 100 - Uniform Provisions concerning the Approval of Vehicles with regard to specific Requirements for the Electric Power Train.	Limitation: Excluding Annex 7: Determination of hydrogen emissions during the charge procedures of the REESS. Annex 8E - Fire resistance
Battery*	UN Regulation No.100 Revision 3: 2022	Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train	

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Battery*	INMETRO Regulation No. 199:04.06.2015	INMETRO Regulation No. 199: Adjustments and explanations to lead- acid batteries for motor-vehicles regulation (Translation).	
Battery*	INMETRO Regulation No. 239:13.07.2012	INMETRO Regulation No. 239: Quality technical regulation for lead-acid batteries for automotive vehicles and motorcycles (Translation).	
Battery*	INMETRO Regulation No. 299:13.07.2012	INMETRO Regulation No. 299: Lead-acid batteries for automotive vehicles (Translation).	
Battery*	INMETRO Regulation No.301:20.05.2014	INMETRO Regulation No. 301: Conformity assessment requirements for automotive components (Translation).	
Battery*	ABNT NBR 15940:22.09.2013	ABNT NBR 15940: Batteries lead-acid for use in automachine vehicles of four or more wheels - Specification and test methods (Original in Portuguese language).	
Battery*	ABNT NBR 15940:2016-08-23	Lead-acid batteries for use in vehicles of four or more wheels - Specification and test	
Battery*	ABNT NBR 15940: Fourth Edition 27.11.2019	ABNT NBR 15940: Lead-acid batteries for use in automotive vehicles of four or more-wheel motor road vehicles - Specification and test methods (Original in Portuguese language).	
Battery*	ABNT NBR 15941:03.11.2012	ABNT NBR 15941: Batteries lead-acid for motorcycles, quadricycle and tricycles - Specification and test methods (Original in Portuguese language).	
Battery*	ABNT NBR 15941: Third Edition 26.04.2019	Lead-acid batteries for motorcycles, quadricycle and tricycles – Specification and test methods (Original in Portuguese language).	

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Battery*	ORDINACE NO. 145:28.03.2022	INMETRO ORDINANCE NO. 145, OF MARCH 28, 2022: Approves the Quality Technical Regulations and the Conformity Assessment Requirements for Automotive Components - Consolidated. (Translation).	
Battery*	UN38.3 Rev.7 Amend1	Manual of Tests and Criteria	
Battery*	UN Regulation No. 136: 2016 + A1: 2023	Uniform provisions concerning the approval of vehicles of category L with regard to specific requirements for the electric power train	
Environmental testing *	IEC 60068-2-1:2007 DIN EN 60068-2-1:2008-01	Environmental testing - Part 2-1: Tests - Test A: Cold	
Environmental testing *	IEC 60068-2-2:2007 DIN EN 60068-2-2:2008-05 VDE 0468-2-2:2008-05	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
Environmental testing *	IEC 60068-2-14:2009 DIN EN 60068-2-14:2010	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	Limitation: Excluding test Nc
Environmental testing *	IEC 60068-2-30:2005 DIN EN 60068-2-30:2006	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
Environmental testing *	IEC 60068-2-78:2012 DIN EN 60068-2-78:2014	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	
Environmental testing *	IEC 61373:2010 DIN EN 61373:2011	Railway applications - Rolling stock equipment - Shock and vibration tests	
Environmental testing *	IEC 60068-2-31:2008 DIN EN 60068-2-31:2009	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	
Environmental testing *	IEC 60068-2-6:2007 DIN EN 60068-2-6:2008 VDE 0468-2-6:2008	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	
Environmental testing *	IEC 60068-2-64:2008 +A1:2019- 10 EN 60068-2-64:2008+A1:2019- 11 DIN EN 60068-2-64:2020 VDE 0468-2-64:2009-04	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	

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Environmental testing *	IEC 60068-2-27:2008 EN 60068-2-27:2009-05 DIN EN 60068-2-27:2010	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	

Abbreviations used:

ABNT	Associação Brasileira de Normas Técnicas(Brazilian National Standards Organization)
AC	AC stands for Amending Corrigendum
AS/NZS	AUSTRALIA STANDARD/NEW ZEALAND STANDARD
DIN	Deutsches Institut für Normung e.V. - German institute for standardization
Ea	Test Designation
Ec	Test Designation
EN	European Standard
Fc	Test Designation
Fh	Test Designation
FprEN	draft European standard
IEC	International Electrotechnical Commission
INMETRO	Instituto Nacional de Metrologia, Qualidade e Tecnologia (National Institute of Metrology, Standardization, and Industrial Quality)
NBR	Norma Brasileira Regulamentadora
Nc	Test Designation
REESS	Rechargeable Energy Storage system
UN	United Nations
VDE	Verband der Elektrotechnik (Association for Electrical, Electronic & Information Technologies)