

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12059-02-01  
according to DIN EN ISO/IEC 17025:2005

Period of validity: 2018-11-19 to 2023-11-18

Date of issue: 2018-11-19

Holder of certificate:

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

Tests in the fields:

**Safety of Electrical Appliances**  
**Batteries**

**Flexible accreditation category III, table on page 2-11**

**No flexible accreditation category III table on page 12 to 13**

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The laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard test methods listed here with different issue dates or revision status updates.

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

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Product Safety	IEC 60065:2001 + A1:2005 + A2:2010 EN 60065:2002 + A1:2006 + A11:2008 + A2:2010 + A12:2011 DIN EN 60065:2011- 10 VDE 0860:2011-10 AS/NZS 60065:2003	Audio, video and similar electronic apparatus – Safety requirements.	
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 60335-1:2010 EN 60335-1:2012 DIN EN 60335- 1:2012-10 VDE 0700-1:2012-10	Household and similar electrical appliances – Safety – Part 1: General requirements.	Limitation: Excluding clause 19.11.
Product Safety	IEC 60335-1:2010 +A1:2011 +A2:2016 EN 60335-1:2012 + A13:2017 DIN EN 60335-1 + A13:2018-07 VDE 0700-1 + A13:2018-07	Household and similar electrical appliances – Safety – Part 1: General requirements.	Limitation: Excluding clause 19.11.

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Product Safety	IEC 60335-2-28:2002 + A1:2008 EN 60335-2-28:2003 + A1:2008 DIN EN 60335-2-28:2009-02 VDE 0700-28:2009-02	Household and similar electrical appliances – Safety – Part 2-28: Particular requirements for sewing machines.	
Product Safety	IEC 60335-2-32:2005 + A1:2008 EN 60335-2-32:2003 + A1:2008 DIN EN 60335-2-32:2009-04 VDE 0700-32:2009-04	Household and similar electrical appliances – Safety – Part 2-32: Particular requirements for massage appliances.	
Product Safety	IEC 60335-2-32:2005 + A1:2008 + A2:2013 EN 60335-2-32:2003 + A1:2008 + A2:2015 DIN EN 60335-2-32:2015-07 VDE 0700-32:2015-07	Household and similar electrical appliances – Safety – Part 2-32: Particular requirements for massage appliances.	
Product Safety	IEC 60335-2-45:2005 + 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 EN 60601-1:2006 + A1:2013 DIN EN 60601-1:2007-07 VDE 0750-1:2007-07	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.	Limitation: Excluding Annex L: Insulated winding wires for use without interleaved insulation.

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	IEC 60601-1 ed.3.1 (IEC 60601-1:2005+A1:2012) EN 60601-1:2006+A1:2013 + A11:2011 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 60601-2-18:2009-08 EN 60601-2-18:1996 + A1:2000 DIN EN 60601-2-18:2008-08 VDE 0750-2-18:2008-08	Medical electrical equipment – Part 2-18: Particular requirements for basic safety and essential performance of endoscopic equipment.	
Product Safety	IEC 60825-1:2007 EN 60825-1:2007 DIN EN 60825-1:2008-05 VDE 0837-1:2008-05	Safety of laser products – Part 1: Equipment classification and requirements.	
Product Safety	IEC 60825-1:2014 EN 60825-1:2014 DIN EN 60825-1 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.	

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Product Safety	IEC 62368-1:2014 EN 62368-1:2014 + AC:2015 + A11:2017 DIN EN 62368- 1:2016-05 VDE 0868-1:2016-05	Audio/video, information and communication technology equipment – Part 1: Safety requirements	
Product Safety	IEC 61010-1:2010 EN 61010-1:2010 DIN EN 61010-1 : 2011-07 VDE 0411-1:2011-07	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements.	
Product Safety	IEC 61010-1:2010 + A1:2016 DIN EN 61010-1 + A1:2015-04 E VDE 0411-1 + A1:2015-04	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.	
	IEC 61010-2- 010:2014 DIN EN 61010-2- 010:2015-05 VDE 0411-2- 010:2015-05	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials.	
	IEC 61010-031:2002 + A1:2008 EN 61010-031:2002 + A1:2008 DIN EN 61010- 031:2008-08 VDE 0411-031:2008- 08	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.	

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Product Safety	IEC 61010-031:2015 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 61010-2-032:2012 EN 61010-2-032:2012 DIN EN 61010-2-032:2013-07 VDE 0411-2-032:2013-07	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.	
	IEC 61010-2-032:2012 DIN EN 61010-2-032:2013-07 VDE 0411-2-032:2013-07	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 61010-2-040:2005 EN 61010-2-040:2005 DIN EN 61010-2-040:2006-02 VDE 0411-2-040:2006-02	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.	
	IEC 61010-2-081:2001 + A1:2003 EN 61010-2-081:2002 + A1:2003 DIN EN 61010-2-081:2004-07 VDE 0411-2-081:2004-07	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 61010-2-081:2015 E DIN EN 61010-2-081:2018-05 E 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.	

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	IEC 61010-2-101:2002 EN 61010-2-101:2002 DIN EN 61010-2-101:2003-09 VDE 0411-2-101:2003-09	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 61010-2-101:2015 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.	
	IEC 61558-1:2005 + A1:2009 EN 61558-1:2005 + A1:2009 DIN EN 61558-1 + A1:2009-11 VDE 0570-1 + A1:2009-11	Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests.	Limitations: Excluding Annex K
Product Safety	IEC 61558-1:2005 + A1:2009 EN 61558-1:2005-11 + AC:2006-08 + A1:2009-03 (FprEN 61558-1:2017-06) DIN EN 61558-1(VDE 0570-1): 2006-07 + AC: 2008-11 + A1:2009-11 E DIN EN 61558-1 (VDE 0570-1):2016-06	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.	Limitations: Excluding Annex K

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Product Safety	IEC 61558-2-1:2007 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 – Partv 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers.	
Product Safety	IEC 61558-2-4:2009 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.	
	IEC 61558-2-16: 2009-06 +A1:2013-08 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	IEC61558-2-17:1997	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 61951-1:2003 + A1:2005 EN 61951-1:2003 + A1:2006 DIN EN 61951-1:2006-09	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Portable sealed rechargeable single cells – Part 1: Nickel-cadmium.	
Product Safety	IEC 61951-2:2011 EN 61951-2:2011 DIN EN 61951-2:2012-03 VDE 0510-31:2012-03	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Portable sealed rechargeable single cells – Part 2: Nickel-metal 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.	
	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 62133:2012 EN 62133:2013 DIN EN 62133: 2013-10 VDE 0510-8:2013-10	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.	

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Product Safety	IEC 62133-1:2017	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	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.	
Product Safety	IEC 62281:2012 EN 62281:2013 DIN EN 6228:2013-10 VDE 0509-6:2013-10	Safety of primary and secondary lithium cells and batteries during transport.	
Product Safety	IEC 62281:2016	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 62660-1:2010 EN 62660-1:2011 DIN EN 62660-1:2012-04 VDE 0510-33:2012-04	Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1: Performance testing.	

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Product Safety	IEC 62660-2:2010 EN 62660-2:2011 DIN EN 62660- 2:2012-04 VDE 0510-34:2012- 04	Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing.	

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**No flexible accreditation:**

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Battery	UN Manual of Test and Criteria Rev 5 Amend1 Part 3, Section 38.3	Lithium Batteries.	
Battery	UN Manual of Test and Criteria Rev 6 Amend1 Part 3, Section 38.3	Lithium metal and lithium ion Batteries.	
Battery	UN ECE R100.02:2013 + A3:2016	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.  The shock test according to clauses 6.4.1 and 6.4.2 will be subcontracted.
	INMETRO Regulation No. 199:04.06.2015	INMETRO Regulation No. 199: Adjustments and explanations to lead-acid batteries for motor- vehicles regulation (Translation).	
	INMETRO Regulation No. 199:04.06.2015	INMETRO Regulation No. 199: Adjustments and explanations to lead-acid batteries for motor- vehicles regulation (Translation).	
	INMETRO Regulation No. 239:13.07.2012	INMETRO Regulation No. 239: Quality technical regulation for lead-acid batteries for automotive vehicles and motorcycles (Translation).	
	INMETRO Regulation No. 299:13.07.2012	INMETRO Regulation No. 299: Lead-acid batteries for automotive vehicles (Translation).	

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	INMETRO Regulation No.301:20.05.2014	INMETRO Regulation No. 301: Conformity assessment requirements for automotive components (Translation).	