

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12059-01-03
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.
Yokohama Laboratories
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan

Tests in the fields:

Safety of electrical appliances
Analogue Network Access
Acoustics
WiFi, OpenADR

Flexible accreditation category III, table on page 1-27

partial flexible accreditation category III table on page 28 to 34

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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	EN 41003:2008-11 DIN EN 41003: 2009-04 VDE 0804-100:2009-04	Particular safety requirements for equipment to be connected to telecommunication networks and/or a cable distribution system.	
Product Safety	EN 50332-1:2000-03 DIN EN 50332-1:2000-10	Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 1: General method for "one package equipment".	
Product Safety	EN 50332-2:2003-10 DIN EN 50332-2:2004-03	Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 2: Matching of sets with headphones if either or both are offered separately.	
Product Safety	EN 50521:2008-11 + A1:2012-07 DIN EN 50521:2013-02 VDE 0126-3:2013-02	Connectors for photovoltaic systems – Safety requirements and tests.	
Product Safety	EN 50548:2011-06 + A1:2013-06 DIN EN 50548:2012-02 VDE 0126-5:2012-02	Junction boxes for photovoltaic modules.	

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Product Safety	IEC 60034-1:2010 EN 60034-1:2010 + AC:2010 DIN EN 60034-1:2011- 02 VDE 0530-1:2011-02	Rotating electrical machines – Part 1: Rating and performance.	Limitation: Maximum rated voltage: 1000 V Maximum electrical rated power: 50 kW.
Product Safety	IEC 60065:2014 EN60065:2014 DIN EN 60065:2016- 05 VDE 0860:2016-05 AS/NZS 60065	Audio, video and similar electronic apparatus – Safety requirements.	
Product Safety	IEC 60204-1:2009 EN 60204-1:2006 + A1:2009 + AC:2010 DIN EN 60204-1:2007- 06 + Ber.1:2010-05 + A1:2009-10 VDE 0113-1: 2007-06	Safety of machinery – electrical equipment of machines – Part 1: General requirements.	
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.
Product Safety	IEC 60335-2-2:2009 + A1:2012 + A2:2016 EN 60335-2-2:2010 + A1:2013 DIN EN 60335-2-2 VDE 0700-2	Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances.	

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Product Safety	IEC 60335-2-8:2012 + A1:2015 EN 60335-2-8:2015 DIN EN 60335-2-8:2016-08 VDE 0700-8:2016-08	Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances.	
Product Safety	IEC 60335-2-9:2008 + A1:2012 + A2:2016 EN 60335-2-9:2003 + A1:2004 + A2:2006 + A12:2007 + A13:2010 DIN EN 60335-2-9 VDE 0700-9	Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances.	
Product Safety	IEC 60335-2-13:2009 + A1:2016 EN 60335-2-13:2010 + A11:2012 DIN EN 60335-2-13 VDE 0700-13	Household and similar electrical appliances – Safety – Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances.	
Product Safety	IEC 60335-2-14:2016 EN 60335-2-14:2006 + A1:2008 + A11:2012 DIN EN 60335-2-14 VDE 0700-14	Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines.	
Product Safety	IEC 60335-2-15:2012 + A1:2016 EN 60335-2-15:2002 + A1:2005 + A2:2008 + A11:2012 DIN EN 60335-2-15 VDE 0700-15	Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids.	
Product Safety	IEC 60335-2-23:2016 EN 60335-2-23:2003 + A1:2008 + A11:2010 DIN EN 60335-2-23 VDE 0700-23	Household and similar electrical appliances – Safety – Part 2-23: Particular requirements for appliances for skin or hair care.	

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Product Safety	IEC 60335-2-24:2010 + A1:2012 + A2:2017 EN 60335-2-24:2003 + A11:2004 + A1:2005 + A2:2007 + A12:2009 DIN EN 60335-2-24 VDE 0700-24	Household and similar electrical appliances – Safety – Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers.	
Product Safety	IEC 60335-2-28:2002 + A1:2008 EN 60335-2-28:2003 + A1:2008 DIN EN 60335-2-28 VDE 0700-28	Household and similar electrical appliances – Safety – Part 2-28: Particular requirements for sewing machines.	
Product Safety	IEC 60335-2-29:2016 EN 60335-2-29:2004 + A2:2010 DIN EN 60335-2-29 VDE 0700-29	Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers.	
Product Safety	IEC 60335-2-30:2009 + A1:2016 EN 60335-2-30:2009 + A11:2012 DIN EN 60335-2-30 VDE 0700-30	Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters.	
Product Safety	IEC 60335-2-32:2002 + A1:2008 + A2:2013 EN 60335-2-32:2003 + A1:2008 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.	

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Product Safety	IEC 60335-2-40:2018 EN 60335-2-40:2003 + A11:2004 + A12:2005 + A1:2006 + A2:2009 + A13:2012 DIN EN 60335-2-40 VDE 0700-40	Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air conditioners and dehumidifiers.	
Product Safety	IEC 60335-2-44:2002 + A1:2008 + A2:2011 EN 60335-2-44:2002 + A1:2008 + A2:2012 DIN EN 60335-2-44 VDE 0700-44	Household and similar electrical appliances – Safety – Part 2-44: Particular requirements for ironers.	
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 VDE 0700-45	Household and similar electrical appliances – Safety – Part 2-45: Particular requirements for portable heating tools and similar appliances.	
Product Safety	IEC 60335-2-55:2002 + A1:2008 EN 60335-2-55:2003 + A1:2008 DIN EN 60335-2-55 VDE 0700-55	Household and similar electrical appliances – Safety – Part 2-55: Particular requirements for electric appliances for use with aquariums and garden ponds.	
Product Safety	IEC 60335-2-56:2002 + A1:2008 + A2:2014 EN 60335-2-56:2003 + A1:2008 + A2:2014 DIN EN 60335-2-56 VDE 0700-56	Household and similar electrical appliances – Safety – Part 2-56: Particular requirements for projectors and similar appliances.	

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Product Safety	IEC 60335-2-75:2012 + A1:2015 EN 60335-2-75:2004 + A1:2005 + A11:2006 + A2:2008 + A12:2010 DIN EN 60335-2-75 VDE 0700-75	Household and similar electrical appliances – Safety – Part 2-75: Particular requirements for commercial dispensing appliances and vending machines.	
Product Safety	IEC 60335-2-80:2015 EN 60335-2-80:2003 + A1:2004 + A2:2009 DIN EN 60335-2-80 VDE 0700-80	Household and similar electrical appliances – Safety – Part 2-80: Particular requirements for fans.	
Product Safety	IEC 60335-2-82:2017 EN 60335-2-82:2003 + A1:2008 DIN EN 60335-2-82 VDE 0700-82	Household and similar electrical appliances – Safety – Part 2-82: Particular requirements for amusement machines and personal service machines.	
Product Safety	IEC 60335-2-84:2002 + A1:2008 + A2:2013 EN 60335-2-84:2003 + A1:2008 DIN EN 60335-2-84 VDE 0700-84	Household and similar electrical appliances – Safety – Part 2-84: Particular requirements for toilets.	
Product Safety	IEC 60335-2-85:2002 + A1:2008 + A2:2017 EN 60335-2-85:2003 + A1:2008 DIN EN 60335-2-85 VDE 0700-85	Household and similar electrical appliances – Safety – Part 2-85: Particular requirements for fabric steamers.	
Product Safety	IEC 60335-2-89:2010 + A1:2012 + A2:2015 EN 60335-2-89 DIN EN 60335-2-89 VDE 0700-89	Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor.	

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Product Safety	IEC 60335-2-102:2017 EN 60335-2-102:2006 + A1:2010 DIN EN 60335-2-102 VDE 0700-102	Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections.	
Product Safety	IEC 60335-2-106:2007 EN 60335-2-106:2007 DIN EN 60335-2-106 VDE 0700-106	Household and similar electrical appliances – Safety – Part 2-106: Particular requirements for heated carpets and for heating units for room heating installed under removable floor coverings.	
Product Safety	IEC 60529:2013-08 EN 60529:1991-10 + A1: 2000-02 DIN EN 60529:2000- 09 + A1:2010-04 VDE 0470-1:2000-09 + A1:2010-04	Degrees of protection provided by enclosures (IP Code).	
Product Safety	IEC 60598-1:2014 + A1:2017 EN 60598-1:2015 + A1:2018 DIN EN 60598-1:2015 + A1:2016 VDE 0711-1:2015 + A1:2016	Luminaires – Part 1: General requirements and tests.	
Product Safety	IEC 60598-2-1:1979 + A1:1987 EN 60598-2-1:1989 DIN VDE 0711-201 VDE 0711-201	Luminaires – Part 2: Particular requirements; Section One: Fixed general purpose luminaires.	
Product Safety	IEC 60598-2-2:2011 EN 60598-2-2:2012 DIN EN 60598-2-2 VDE 0711-202	Luminaires – Part 2: Particular requirements; Section 2: Recessed luminaires.	

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Product Safety	IEC 60598-2-4:1997 EN 60598-2-4:1997 DIN EN 60598-2-4 VDE 0711-2-4	Luminaires – Part 2: Particular requirements; Section 4: Portable general purpose luminaires.	
Product Safety	IEC 60598-2-6:1994 + A1:1996 EN 60598-2-6:1994 + A1:1997 DIN EN 60598-2-6 VDE 0711-206	Luminaires – Part 2: Particular requirements; Section 6: Luminaires with built-in transformers for filament lamps.	
Product Safety	IEC 60598-2-8:1996 + A1:2000 + A2:2007 EN 60598-2-8:1997 + A1:2000 + A2:2008 DIN EN 60598-2-8 VDE 0711-2-8	Luminaires – Part 2-8: Particular requirements – Handlamps.	
Product Safety	IEC 60598-2-10:2003 EN 60598-2-10:2003 DIN VDE 711-2-10 VDE 0711-2-10	Luminaires – Part 2-10: Particular requirements – Portable luminaires for children.	
Product Safety	IEC 60598-2-20:2010 EN 60598-2-20:2010 DIN EN 60598-2-20 VDE 0711-2-20	Luminaires – Part 2-20: Particular requirements – Lighting chains.	
Product Safety	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.	
Product Safety	IEC 60601-1-1:2000 EN 60601-1-1:2001 DIN EN 60601-1- 1:2002-08 VDE 0750-1-1:2002-08	Medical electrical equipment – Part 1-1: General requirements for safety – Collateral standard: Safety requirements for medical electrical systems.	

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Product Safety	IEC 60601-1-3:2008 + A1:2013 EN 60601-1-3:2008 + A1:2013 DIN EN 60601-1-3:2014-06 VDE 0750-1-3:2014-6	Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment.	
Product Safety	IEC 60601-1-4:1996 + A1:1999 EN 60601-1-4:1996+A1:1999 DIN EN 60601-1-4:2001-04 VDE 0750-1-4:2001-04	Medical electrical equipment – Part 1-4: General requirements for safety – Collateral Standard: Programmable electrical medical systems.	
Product Safety	IEC 60601-1-6:2010 + A1:2013 EN 60601-1-6:2010 DIN EN 60601-1-6:2010-10 + A1:2012-07 VDE 0750-1-6:2010-10 + A1:2012-07	Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability.	
Product Safety	IEC 60601-1-8:2006 + A1:2012 EN 60601-1-8:2007 + A1:2013 DIN EN 60601-1-8:2008-02 + A1:2011-01 VDE 0750-1-8:2008-02 + A1:2011-01	Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems.	
Product Safety	IEC 60601-2-2:2017 EN 60601-2-2:2018 DIN EN 60601-2-2:2010-01 VDE 0750-2-2:2010-01	Medical electrical equipment – Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories.	

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Product Safety	IEC 60601-2-4:2010 + A1:2018 EN 60601-2-4:2011 DIN EN 60601-2-4:2012-05 VDE 0750-2-4:2012-05	Medical electrical equipment – Part 2-4: Particular requirements for basic safety and essential performance of cardiac defibrillators.	
Product Safety	IEC 60601-2-5:2015 EN 60601-2-5:2015 DIN IEC 60601-2-5:2015 VDE 0750-2-5: 2016-08	Medical electrical equipment – Part 2-5: Particular requirements for basic safety and essential performance of ultrasonic physiotherapy equipment.	
Product Safety	IEC 60601-2-7:1998 EN 60601-2-7:1998 DIN EN 60601-2-7:2000-03 VDE 0750-2-7: 2000-03	Medical electrical equipment – Part 2-7: Particular requirements for the safety of high-voltage generators of diagnostic X-ray generators.	
Product Safety	IEC 60601-2-10:2012 + A1:2016 EN 60601-2-10:2015	Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators.	
Product Safety	ISO 80601-2-12:2011 EN 60601-2-12:2006 DIN EN ISO 80601-2-12:2012-02 VDE 0750-2-12:2012-02	Medical electrical equipment – Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators	
Product Safety	IEC 60601-2-16:2018 EN 60601-2-16:2015 DIN EN 60601-2-16:2016-02 VDE 0750-2-16:2016-02	Medical electrical equipment – Part 2-16: Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment.	

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Product Safety	IEC 60601-2-18:2009 EN 60601-2-18:2015 DIN EN 60601-2-18:2016-02 VDE 0750-2-18:2016-02	Medical electrical equipment – Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment.	
Product Safety	IEC 60601-2-22:2012 EN 60601-2-22:2013 DIN EN 60601-2-22:2015-08 VDE 0750-2-22:2015-08	Medical electrical equipment – Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment.	
Product Safety	IEC 60601-2-24:2012 EN 60601-2-24:2015 DIN EN 60601-2-24:2016-04 VDE 0750-2-24:2016-04	Medical electrical equipment – Part 2-24: Particular requirements for basic safety and essential performance of infusion pumps and controllers.	
Product Safety	IEC 60601-2-25:2011 EN 60601-2-25:2015 DIN IEC 60601-2-25:2016-08 VDE 0750-2-25:2016-08	Medical electrical equipment – Part 2-25: Particular requirements for basic safety and essential performance of electrocardiographs.	
Product Safety	IEC 60601-2-27:2011 EN 60601-2-27:2014 DIN IEC 60601-2-27:2008-01 VDE 0750-2-27:2008-01	Medical electrical equipment – Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment.	
Product Safety	IEC 60601-2-28:2017 EN 60601-2-28:2010 DIN EN 60601-2-28:2010-11 VDE 0750-2-28:2010-11	Medical electrical equipment – Part 2-28: Particular requirements for basic safety and essential performance of X-ray tube assemblies for medical diagnosis.	

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Product Safety	IEC 80601-2-30:2018 EN 80601-2-30:2010 DIN EN 80601-2-30: 2011-05 VDE 0750-2-30:2011- 05	Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non- invasive sphygmomanometers.	
Product Safety	IEC 60601-2-33:2010 + A1:2013 + A2:2015 EN 60601-2-33 + A1:2015 + A2:2015 DIN EN 60601-2- 33:2017-11 VDE 0750-2-33:2017- 11	Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis.	
Product Safety	IEC 60601-2-34:2011 EN 60601-2-34:2014 DIN IEC 60601-2- 34:2008-01 VDE 0750-2-34:2008- 01	Medical electrical equipment – Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment.	
Product Safety	IEC 60601-2-37:2007 + A1:2015 EN 60601-2-37:2008 + A11:2011 + A1:2015 DIN EN 60601-2- 37:2016-11 VDE 0750-2-37:2016- 11	Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.	
Product Safety	IEC 60601-2- 41:2009+A1:2013 EN 60601-2-41 :2009+A1:2015	Medical electrical equipment – Part 2-41: Particular requirements for the basic safety and essential performance of surgical luminaires and luminaires for diagnosis.	
Product Safety	IEC 60601-2-43:2010 + A1:2017 DIN EN 60601-2- 43:2011-03 VDE 0750-2-43:2011- 03	Medical electrical equipment – Part 2-43: Particular requirements for basic safety and essential performance of X-ray equipment for interventional procedures.	

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Product Safety	IEC 60601-2-44:2009 + A1:2012 + A2:2016 EN 60601-2-44:2009 + A1:2012 + A2:2016 DIN EN 60601-2- 44:2017-03 VDE 0750-2-44:2017- 03	Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography.	
Product Safety	IEC 60601-2-45:2011 + A1:2015 EN 60601-2-45:2011 + A1:2015 DIN EN 60601-2- 45:2017-01 VDE 0750-2-45:2017- 01	Medical electrical equipment – Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices.	
Product Safety	IEC 80601-2-49:2018 EN 60601-2-49 :2015	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors.	
Product Safety	IEC 60601-2-50:2009 + A1:2016 EN 60601-2-50:2009 + A11:2011 DIN EN 60601-2- 50:2010-02 VDE 0750-2-50:2010- 02	Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment.	
Product Safety	IEC 60601-2-52:2009 + A1:2015 EN 60601-2-52:2010 + A1:2015 DIN EN 60601-2- 52:2010-12 VDE 0750-2-52:2010- 12	Medical electrical equipment – Part 2-52: Particular requirements for the basic safety and essential performance of medical beds	

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Product Safety	IEC 60601-2-54:2009 + A1:2015 EN 60601-2-54:2009 + A1:2015 DIN EN 60601-2-54:2016-07 VDE 0750-2-54:2016-07	Medical electrical equipment – Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy.	
Product Safety	IEC 60601-2-63:2012 + A1:2017 EN 60601-2-63:2015 DIN EN 60601-2-63:2016-11 VDE 0750-2-63:2016-11	Medical electrical equipment – Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment.	
Product Safety	IEC 60601-2-65:2012 + A1:2017 EN 60601-2-65:2013 DIN EN 60601-2-65:2016-11 VDE 0750-2-65:2016-11	Medical electrical equipment – Part 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment.	
Product Safety	IEC 60704-1:2010-02 EN 60704-1:2010-03 + A11:2012-11 DIN EN 60704-1:2012-11 + A11:2013-10	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements	
Product Safety	IEC 60747-5-1:2002 EN 60747-5-1:2001 + A1:2002 + A2:2002 DIN EN 60747-5-1:2003-01 VDE 0884-1:2003-01	Discrete semiconductor devices and integrated circuits – Part 5-1: Optoelectronic devices – General.	

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Product Safety	IEC 60747-5-2:2009 EN 60747-5-2:2001 + A1:2002 DIN EN 60747-5-2:2003-01 VDE 0884-2:2003-01	Discrete semiconductor devices and integrated circuits – Part 5-2: Optoelectronic devices – Essential ratings and characteristics.	
Product Safety	IEC 60747-5-3:2009 EN 60747-5-3:2001 + A1:2002 DIN EN 60747-5-3:2003-01 VDE 0884-3:2003-01	Discrete semiconductor devices and integrated circuits – Part 5-3: Optoelectronic devices – Measuring methods.	
Product Safety	IEC 60747-5-5:2007 + A1:2013 EN 60747-5-5:2011 + A1:2015 DIN EN 60747-5-5:2015-11 VDE 0884-5:2015-11	Discrete semiconductor devices and integrated circuits – Part 5-5: Optoelectronic devices – Essential ratings and characteristics.	
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 60838-1:2004 + A1:2008 + A2:2011 EN 60838-1:2004 + A1:2008 + A2:2011 DIN EN 60838-1 VDE 0616-5	Miscellaneous lampholders – Part 1: General requirements and tests.	
Product Safety	IEC 60838-2-2:2006 EN 60838-2-2:2006 DIN EN 60838-2-2 VDE 0616-6	Miscellaneous lampholders – Part 2-2: Particular requirements – Connectors for LED-modules.	

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Product Safety	IEC 60939-2:2005 + Cor.1: 2005 EN 60939-2:2005 DIN EN 60939-2:2006-05 VDE 0565-3-1:2006-05	Sectional specification – Passive filter units for which safety tests are appropriate – Test methods and general 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 VDE 0805-1 AS/NZS 60950.1	Information technology equipment – Safety – Part 1: General requirements.	
Product Safety	IEC 60950-22:2016 EN 60950-22:2006 DIN EN 60950-22 VDE 0805-22	Information technology equipment – Safety – Part 22: Equipment installed outdoors.	
Product Safety	IEC 60999-1:1999 EN 60999-1:2000 DIN EN 60999-1 VDE 0609-1:2000-12	Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included).	
Product Safety	IEC 61010-1:2010 + A1:2016 EN 61010-1:2010 DIN EN 61010-1 VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements.	
Product Safety	IEC 61010-2-020:2016 DIN EN 61010-2-020:2017-12 VDE 0411-2-020:2017-12	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-020: Particular requirements for laboratory centrifuges.	

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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 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 61010-2-081:2001 + A1:2003 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.	
Product Safety	IEC 61347-1:2008 + A1:2010 EN 61347-1:2008 + A1:2011 DIN EN 61347-1 VDE 0712-30	Lamp controlgear – Part 1: General and safety requirements.	
Product Safety	IEC 61347-2-13:2006 EN 61347-2-13:2006 DIN EN 61347-13 VDE 0712-43	Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules.	
Product Safety	IEC 61439-1:2011 EN 61439-1:2011 + AC:2013 DIN EN 61439-1:2013-08 VDE 0660-600-1:2013-08	Low-voltage switchgear and controlgear assemblies – Part 1: General rules.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests, short circuit making and breaking tests and withstand current tests.

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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 61558-1:2009 + Cor.2:2010 + Cor.3:2011 EN 61558-1:2005 + AC:2006 + A1:2009 DIN EN 61558-1 + Ber.1:2008-11 + Ber. 2:2008-12 + A1:2009- 11 VDE 0570-1:2006-07 + Ber.1:2008-11 + Ber. 2:2008-12 + A1:2009- 11	Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests.	Limitation: Excluding Annex K.
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 – Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers.	
Product Safety	IEC 61558-2-4:2007 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.	

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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 61558-2-16:2009-06 EN 61558-2-16:2010 DIN EN 61558-2-16:2010-07 VDE 0570-2-16: 2010	Safety of power transformers, power supply units and similar – Part 2-16: Particular requirements for safety isolating transformers for switch mode power supplies.	
Product Safety	IEC 61727:2004 EN 61727:1995 prEN 61727:2004 DIN EN 61727:1996-12	Photovoltaic (PV) systems – Characteristics of the utility interface.	
Product Safety	IEC 61851-1:2010 EN 61851-1:2011 DIN EN 61851-1:2012-01 VDE 0122-1:2012-01	Electrical vehicle conductive charging system – Part 1: General requirements.	
Product Safety	IEC 61851-21:2012 EN 61851-21:2002 DIN EN 61851-21:2002-10 VDE 0122-2-1:2002-10	Electrical equipment of electric road vehicles – Electric vehicles conductive charging system – Part 2-1: Electric vehicle requirements for conductive connection to an a.c./d.c. supply.	
Product Safety	IEC 61851-22:2002 EN 61851-22:2002 DIN EN 61851-22:2002-10 VDE 0121-2-2:2002-10	Electrical equipment of electric road vehicles – Electric vehicles conductive charging system – Part 2-2: AC electric vehicle charging station.	
Product Safety	IEC 62031:2008 EN 62031:2008 DIN EN 62031:2009 VDE 0715-5:2009	LED modules for general lighting – Safety specifications.	

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Product Safety	IEC 62040-1:2017 EN 62040-1:2008 + A1:2013 DIN EN 62040-1 VDE 0558-510	Uninterruptible Power Systems (UPS) – Part 1: General and safety requirements for UPS.	Limitation. Maximum power is 20 kVA.
Product Safety	IEC 62087:2011-04 EN 62087:2012-04 DIN EN 62087:2013-08	Methods of measurement for the power consumption of audio, video and related equipment.	
Product Safety	EN 50178:1997 DIN EN 50178 VDE 0160:1998-04	Electronic equipment for use in power installations.	Limitation: Excluding equipment with rated voltages in excess of 1000 V.
Product Safety	IEC 62109-1:2010 EN 61109-1:2010 DIN EN 62109-1:2011-04 VDE 0126-14-1:2011-04	Safety of power converters for use in photovoltaic power systems – Part 1: General requirements.	
Product Safety	IEC 62109-2:2010 EN 62109-2:2011 DIN EN 62109-2:2012-04 VDE 0126-14-2:2012-04	Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters.	
Product Safety	IEC 62116:2008 EN 62116:2011 DIN EN 62116:2012-01 VDE 0126-2:2012-01	Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters.	Limitation: Maximum load is 60 kVA.
Product Safety	IEC 62196-1:2011 EN 62196-1:2012 + AC:2012 + A11:2013 DIN EN 62196-1 + A11:2013-09 VDE 0623-5:2012-11 + A11:2013-09	Plug, socket-outlets, vehicle couplers and vehicle inlets – Conductive charging of electrical vehicles – Part 1: Charging of electrical vehicles up to 250 A a.c. or 400 A d.c.	Limitation: The conditional short circuit current test according to clause 31 is limited to 10 kA.

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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 62301: 2011-01	Household electrical appliances – Measurement of standby power.	
Product Safety	IEC 62366:2007 EN 62366:2008 DIN EN 62366:2008 VDE 0750-241	Medical devices – Application of usability engineering to medical devices.	
Product Safety	IEC 62366-1:2015 EN 62366-1:2015	Medical devices – Part 1: Application of usability engineering to medical devices.	
Product Safety	IEC 62368-1:2014 + Cor.1:2015 EN 62368-1:2014 + AC:2015 DIN EN 62368-1- 1:2016-05 VDE 0868-1-1:2016-05	IEC 62368-1: Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements.	
Product Safety	IEC 62384 EN 62384 DIN EN 62384 VDE 0712-26	DC or AC supplied electronic control gear for LED modules – Performance requirements.	
Product Safety	IEC 62471:2006-07 EN 62471:2008 DIN EN 62471:2009- 03 VDE 0837-471:2009	Photobiological safety of lamps and lamp systems.	
Product Safety	IEC 62471-5:2015 EN 62471-5:2015 DIN EN 62471-5:2017- 02 VDE 0837-471-5:2017- 02	Photobiological safety of lamps and lamp systems – Part 5: Image projectors.	

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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 62477-1:2012 EN 62477-1:2012 DIN EN 62477-1:2013-04 VDE 0558-477-1:2013-04	Safety requirements for power electronic converter systems and equipment – Part 1: General.	Limitation: Maximum rated voltage: 1000 V Maximum electrical rated power: 50 kW. Excluding the high current arcing ignition test acc. To cl. 5.2.5.2.
Product Safety	IEC 62560:2010 EN 62560:2012 DIN EN 62560:2013-11 VDE 0715-13:2013-11	Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications.	
Product Safety	ISO 4892-1:1999-07 EN ISO 4892-1:2000-09 DIN EN ISO 4892-1:2001-09	Plastics – Methods of exposure to laboratory light sources – Part 1: General guidance.	
Product Safety	ISO 4892-2:2013-03 EN ISO 4892-1:2013-03 DIN EN ISO 4892-2:2013-06	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps.	
Product Safety	ISO 7779:2010-08 EN ISO 7779:2010-08 DIN EN ISO 7779:2011-01	Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment.	
Environmental Testing	IEC 60068-2-1:2007-03 EN 60068-2-1:2007-04 DIN EN 60068-2-1:2008-01 VDE 0468-2-1:2008-01	Environmental testing – Part 2-1: Tests – Test A: Cold.	

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Environmental Testing	IEC 60068-2-2:2007-07 EN 60068-2-2:2007-09 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 60068-2-6:2007-12 EN 60068-2-6:2008-02 DIN EN 60068-2-6:2008-10 VDE 0468-2-6:2008-10	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal).	
Environmental Testing	IEC 60068-2-11:1981-01 + Cor.1:1999-12 EN 60068-2-11:1999-04 DIN EN 60068-2-11:2000-02	Environmental testing – Part 2: Tests – Test Ka: Salt mist.	
Environmental Testing	IEC 60068-2-14:2009-01 EN 60068-2-14:2009-07 DIN EN 60068-2-14:2010-04	Environmental testing – Part 2: Tests – test N: Change of temperature.	
Environmental Testing	IEC 60068-2-27:2008-02 EN 60068-2-27:2009-05 DIN EN 60068-2-27:2010-02	Basic environmental testing procedures – Part 2: Tests – test Ea and guidance: Shock.	Limitation: Shock duration between 2 ms and 6 ms.
Environmental Testing	IEC 60068-2-30:2005-08 EN 60068-2-30:2005-12 DIN EN 60068-2-30:2006-06	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle).	

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Environmental Testing	IEC 60068-2-31: 2008-05 EN 60068-2-31: 2008-09 DIN EN 60068-2-31:2009-04	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	
Environmental Testing	IEC 60068-2-52:1996-01 + Cor.1: 1996-07 EN 60068-2-52:1996-03 DIN EN 60068-2-52:1996-10	Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution).	
Environmental Testing	IEC 60068-2-64:2008-04 EN 60068-2-64:2008-09 DIN EN 60068-2-64:2009-04 VDE 0468-2-64:2009-04	Environmental testing – Part 2-64: Tests – Test Fh: Vibration, broadband random and guidance.	Limitation: Frequency range from 5 Hz to 3 kHz.
Low Voltage	IEC 60947-1: 2014 EN 60947-1:2007 + A1:2011 DIN EN 60947-1:2015-05 VDE 0660-100:2015-09	Low-voltage switchgear and controlgear – Part 1: General rules.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests and short circuit making and breaking tests.
Low Voltage	IEC 60947-2:2016 + AC:2016 EN 60947-2:2006 + A1:2009 + A2:2013 DIN EN 60947-2:2014-01 VDE 0660-101:2014-01	Low-voltage switchgear and controlgear – Part 2: Circuit-breakers.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests and short circuit making and breaking tests.

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Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Low Voltage	IEC 60947-4-1:2009 + A1:2012 EN 60947-4-1:2010 + A1:2012 DIN EN 60947-4-1:2014-02 VDE 0660-102:2014-02	Low-voltage switchgear and controlgear – Part 4-2: Contactors and motor-starters – AC semiconductor motor controllers and starters.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests and short circuit making and breaking tests.
Low Voltage	IEC 60947-4-2:2011 + Cor.1:2012 EN 60947-4-2:2012 DIN EN 60947-4-2:2013-05 VDE 0660-117:2013-05	Low-voltage switchgear and controlgear – Part 4-2: Contactors and motor-starters – AC semiconductor motor controllers and starters.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests and short circuit making and breaking tests.
Low Voltage	IEC 60947-4-3:2014 EN 60947-4-3:2014 DIN EN 60947-4-3:2015-04 VDE 0660-109:2015-04	Low-voltage switchgear and controlgear – Part 4-3: Contactors and motor-starters – AC semiconductor controllers and contactors for non-motor loads.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests, short circuit making and breaking tests and withstand current tests.
Low Voltage	IEC 60947-5-5:2016 EN 60947-5-5:1997 + A1:2005 + A11:2013 + A2:2017 DIN EN 60947-5-5:2017-08 VDE 0660-210:2017-08	Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements – Electrical emergency stop device with mechanical latching function.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests and short circuit making and breaking tests.

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Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Low Voltage	IEC 60947-5-8:2006 EN 60947-5-8:2006 DIN EN 60947-5-8:2007-08 VDE 0660-215:2007-08	Low-voltage switchgear and controlgear – Part 5-8: Control circuit devices and switching elements – Three-position enabling switches.	Limitation: Only equipment rated up to 400 V and 25 A, without short-circuit tests and short circuit making and breaking tests.
Low Voltage	IEC 60947-7-1:2009 EN 60947-7-1:2009 DIN EN 60947-7-1:2010-03 VDE 0611-1:2010-03	Low-voltage switchgear and controlgear – Part 7-1: Ancillary equipment – Terminal blocks for copper conductors.	
Low Voltage	IEC 60947-7-2:2009 EN 60947-7-2:2009 DIN EN 60947-7-2:2010-03 VDE 0611-3:2010-03	Low-voltage switchgear and controlgear – Part 7-2: Ancillary equipment – Protective conductor terminal blocks for copper conductors.	

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Within the testing fields) marked with *, the laboratory is permitted, without being required to inform or 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
Telecommunication	TBR 15 January 1997	Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 2-wire analogue leased lines (A2O and A2S); Attachment requirements for terminal equipment interface.	
Telecommunication	TBR 17 January 1997	Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 4-wire analogue leased lines (A4O and A4S); Attachment requirements for terminal equipment interface.	
Telecommunication	TBR 21 January 1998	Access and Terminals (AT); Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signalling.	
Telecommunication	TBR 38 May 1998	Public Switched Telephone Network (PSTN); Attachment requirements for a terminal equipment incorporating an analogue handset function capable of supporting the justified case service when connected to the analogue interface of the PSTN in Europe.	
Telecommunication	ES 203 021-1 August 2005	Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017 Part 1: General aspects.	
Telecommunication	ES 203 021-2 January 2006	Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017 Part 2: Basic transmission and protection of the network of harm.	

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Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Telecommunication	ES 203 021-3 January 2006	Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017 Part 3: Basic Interworking with the Public Telephone Networks.	
Telecommunication	EN 301 437 June 1999	Terminal Equipment (TE); Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE supporting the voice telephony service in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signalling.	*
Telecommunication	ETSI EG 201 120 January 1998	Public Switched Telephone Network (PSTN); Method of rating terminal equipment so that it can be connected in series and/or in parallel to a Network Termination Point (NTP).	*
Telecommunication	AS/CA 902:2015* February 2015	Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network.	*
Telecommunication	AS/ACIF S004 : 2008 October 2008	Voice frequency performance requirements for Customer Equipment.	*
Telecommunication	TIA-968-B August 2009 + Addendum 1 June 2012 + Addendum 2 January 2015 + Addendum 3 March 2016	Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network	
Telecommunication	CS-03 Part I Issue 9, Amendment 4 December 2010	Requirements for Terminal Equipment and Related Access Arrangement Intended for Direct Connection to Analogue Wireline Facilities.	*
Telecommunication	CS-03 Part V Issue 9, Amendment 1 January 2009	Requirements and Testmethods for Magnetic Output from Handset Telephones for Hearing Aid Coupling and for Receive Volume Control.	*

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Telecommunication	ETSI ES 201 187 March 1999	2-wire analogue voice band interfaces; Loop Disconnect (LD) dialling specific requirements.	*
Telecommunication	ETSI ES 201 729 February 2000	Public Switched Telephone Network (PSTN); 2-wire analogue voice band switched interfaces; Timed break recall (register recall); Specific requirements for terminals	*
Telecommunication	IMDA TS PSTN Issue 1, October 2016	Technical Specification for Terminal Equipment connecting to the Public Switched Telephone Network (PSTN)	*
Telecommunication	HKTA 2011* May 2010	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) in Hong Kong.	
Telecommunication	SKMM FTS PSTN 2007	Technical Specification for Terminal Equipment Connecting to the Public Switched Telephone Network.	
Telecommunication	SKMM MTSFB TC T001:2013	Specification for Terminal Equipment Connecting to The Public Switched Telephone Network (PSTN)	
Telecommunication	Wi-Fi WPA2 Version 1.15.16	Wi-Fi CERTIFIED WPA2™ Test Plan	
Telecommunication	Wi-Fi IEEE 802.11n Version 2.11 and 2.12	Wi-Fi CERTIFIED™ n Test Plan	
Telecommunication	Wi-Fi Multimedia Version 2.3	WMM System Interoperability Test Plan with Test Engine.	
Telecommunication	Wi-Fi WMM Power Save Version 2.1.6	WMM Power Save System Interoperability Test Plan.	
Telecommunication	Wi-Fi Protected Setup Version 2.0.17	Wi-Fi Protected Setup Test Plan	
Telecommunication	Wi-Fi Direct Version 1.7	Wi-Fi CERTIFIED Wi-Fi Direct® Test Plan	
Telecommunication	Wi-Fi IBSS with WPS Version 1.0.1	Wi-Fi CERTIFIED™ IBSS with Wi-Fi Protected Setup™ Interoperability Test Plan	
Telecommunication	Wi-Fi Miracast Version 2.3	Wi-Fi CERTIFIED Miracast™ Test Plan	

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Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Telecommunication	Wi-Fi CERTIFIED ac Version 2.4	Wi-Fi CERTIFIED ac Interoperability Test Plan	
Telecommunication	Wi-Fi CERTIFIED Protected Management Frames Version 1.4	Wi-Fi CERTIFIED Protected Management Frames System Interoperability Test Plan	
Telecommunication	Wi-Fi CERTIFIED Wi-Fi Direct@ Services Version 1.1	Wi-Fi CERTIFIED Wi-Fi Direct@ Services Interoperability Test Plan	
Telecommunication	Wi-Fi CERTIFIED Passpoint Release2 Version 1.8	Wi-Fi CERTIFIED Passpoint (Release 2) Interoperability Test Plan	
Telecommunication	Wi-Fi CERTIFIED TDLS Version 1.0.2	Wi-Fi CERTIFIED TDLS System Interoperability Test Plan	
Telecommunication	Wi-Fi Aware™ Version 2.1	Wi-Fi CERTIFIED Wi-Fi Aware™ Test Plan	
Telecommunication	Wi-Fi CERTIFIED WiGig™ Version 1.0	Wi-Fi CERTIFIED WiGig Test Plan	
Telecommunication	Wi-SUN MAC Conformance Test Suite Specification for Echonet Lite 1v06	Wi-SUN MAC Conformance Test Suite Specification for Echonet Lite	
Telecommunication	Wi-SUN Echonet Profile Interface Conformance 1v10	Wi-SUN Interface Conformance Test Suite Specification for Echonet Profile	
Telecommunication	Wi-SUN Echonet Profile interoperability 1v05	Wi-SUN Echonet Profile Interoperability Test Suite Specification for Echonet Lite	
Telecommunication	Wi-SUN MAC Conformance Test Suite Specification for Single-hop HAN 1v02	Wi-SUN Echonet Profile MAC Conformance Test Suite Specification – Amendment on Single-hop HAN	

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Telecommunication	Wi-SUN Echonet Profile Interface Conformance Test Specification for Single-hop HAN 1v03	Wi-SUN Echonet Profile Interface Conformance Test Suite Specification – Amendment on Single-hop HAN	
Telecommunication	Wi-SUN Echonet Profile Interoperability Test Specification for Single-hop HAN 1v03	Wi-SUN Echonet Profile Interoperability Test Specification – Amendment on Single-hop HAN	
Telecommunication	Wi-SUN MAC Conformance Test Suite Specification for Extended HAN 1v01	Wi-SUN Echonet Profile MAC Conformance Test Suite Specification – Amendment for Extended HAN	
Telecommunication	Wi-SUN Echonet Profile Interface Conformance Test Specification for HAN extension stage 2 1v01	Wi-SUN Echonet Profile Interface Conformance Test Suite Specification – Supplement 2: HAN Extension stage 2	
Telecommunication	Wi-SUN Interoperability Test Specification for HAN extension stage 2 1v02	Wi-SUN Interoperability Test Specification for ECHONET Lite – Supplement 2: HAN Extension stage 2	
Telecommunication	Wi-SUN PHY Conformance Test Suite Specification 1v16	Wi-SUN PHY Conformance Test Suite Specification	
Telecommunication	Wi-SUN PHY Interop Test Suite Specification 1v06	Wi-SUN PHY Interop Test Suite Specification	
Telecommunication	IEEE 802.15.4: 2003*	Low-Rate Wireless Personal Area Networks (LR-WPANs)	For testing ZigBee devices

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Telecommunication	IEEE 802.15.4: 2006	Low-Rate Wireless Personal Area Networks (LR-WPANs)	For testing ZigBee devices
Telecommunication	IEEE 802.15.4: 2011	Low-Rate Wireless Personal Area Networks (LR-WPANs)	For testing ZigBee devices
Telecommunication	IEEE 802.15.4g: 2012*	Low-Rate Wireless Personal Area Networks (LR-WPANs) Amendment 3: Physical Layer (PHY) Specifications for Low-Data-Rate, Wireless, Smart Metering Utility Networks	For testing ZigBee and Wi-SUN devices
Telecommunication	IEEE 802.15.4e: 2012	Low-Rate Wireless Personal Area Networks (LR-WPANs) Amendment 1: MAC sublayer	For testing ZigBee and Wi-SUN devices
Telecommunication	ZigBee IP Network Level Test Specification Version 6.0	ZigBee IP protocol stack for J-HEMS profile	
Telecommunication	ZigBee Smart Energy Standard Version 1.1b	ZigBee standard for Demand Response and Load Management "Smart Energy" applications	
Telecommunication	ZigBee Home Automation Version 1.2	ZigBee standard for Home Automation applications	
Telecommunication	ZigBee Light Link Version 1.1	ZigBee standard for lighting application domain.	
Telecommunication	Zigbee 3.0 Base Device Behavior Test Specification v1.0	Test specification for products implementing Zigbee 3.0 Base Device Behaviour	
Telecommunication	Zigbee 3.0 Cluster Test Specifications	Test specifications for Zigbee 3.0 clusters	
Telecommunication	Zigbee Green Power Test Specification v1.0	Test specification for products implementing Zigbee PRO Green Power feature	
Telecommunication	OpenADR 2.0a Certification Test Specification Version 1.1.2	Test cases for systems implementing the OpenADR 2.0a profile	

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Telecommu- nication	OpenADR 2.0b Certification Test Specification Version 1.1.2	Test cases for systems implementing the OpenADR 2.0b profile	