

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17198-01-00 according to ISO/IEC 17025:2005

Period of validity: 19.05.2017 to 18.05.2022

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Holder of certificate:

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Tests in the fields:

Safety of Electrical Appliances,
Electromagnetic Compatibility (EMC) and
Automotive EMC

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Household and similar equipment	IEC60335-1:2010+A1:2013+COR1:2014 EN 60335-1:2012+AC:2014+A11:2014	Household and similar electrical appliances - Part 1: General requirements	
	IEC 60335-2-2:2009+A1:2012 EN 60335-2-2:2010+A11:2012+A1:2013	Household and similar electrical appliances Safety - Part 2-2: Particular requirements for vacuum cleaners and water - suction cleaning appliances	
	IEC 60335-2-3:2012+A1:2015 EN 60335-2-3:2016	Household and similar electrical appliances Safety - Part 2-3: Particular requirements for electric irons	
	IEC 60335-2-4:2008 +A1:2012 EN 60335-2-4:2010 +A1:2015	Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors	

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	IEC 60335-2-5:2012 EN 60335-2-5: 2015	Household and similar electrical appliances Safety - Part 2-5: Particular requirements for dishwashers	
	I IEC 60335-2-6:2014 EN 60335-2-6:2015	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	
	IEC 60335-2-7:2008 +A1:2011 EN 60335-2-7:2010 +A1:2013+A11:2013	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	
	IEC 60335-2-8:2012+A1:2015 EN 60335-2-8:2015+A1:2016	Household and similar electrical appliances - Safety- Part 2-8: Particular requirements for shavers, hair clippers and similar appliances	
	IEC 60335-2-9:2008 +A1: 2012 EN 60335-2-9:2003+ A1:2004+A2:2006+ A12:200 + A13: 2010+ AC:2012	Household and similar electrical appliances Safety - Part 2-9: Particular requirements for toasters, grills, roasters and similar appliances	
	IEC 60335-2-10:2002+A1:2008, EN 60335-2-10:2003+A1:2008	Household and similar electrical appliances Safety - Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines	
	IEC 60335-2-11: 2008 +A1:2012+A2:2015 EN 60335-2-11: 2010 +A11:2012+A1:2015	Household and similar electrical appliances Safety - Part 2-11: Particular requirements for tumble dryers	
	IEC 60335-2-12:2008, EN 60335-2-12:2008	Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances	
	IEC 60335-2-13 : 2009 EN 60335-2-13:2010+A11: 2012	Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances	
	IEC 60335-2-14:2006 +A1:2008+A2:2012 EN 60335-2-14:2006 +A1:2008+A11:2012+ A12:2016	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines	
	IEC 60335-2-15:2012 EN 60335-2-15:2016	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids	

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	IEC 60335-2-16: 2002 +A1:2008+A2:2011 EN 60335-2-16:2003+ A1:2008+A2:2012	Household and similar electrical appliances - Safety – Part 2-16: Particular requirements for food waste disposers	
	IEC 60335-2- 17:2012+A1:2015, EN 60335-2-17:2013	Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads and similar flexible heating appliances	
	IEC 60335-2-21:2012 EN 60335-2-21:2003 +A1:2005+A2:2008	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters	
	IEC 60335-2-23:2016 EN 60335-2-23:2003+ A1:2008+A11:2010+AC:2012+ A2:2015	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care	
	IEC 60335-2-24:2010 +A1:2012 EN 60335-2-24:2010	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	
	IEC 60335-2-25:2010+ A1:2014+A2:2015 EN 60335-2- 25:2012+A1:2015+A2:2016	Household and similar electrical appliances Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens	
	IEC 60335-2- 28:2002+A1:2008 EN 60335-2- 28:2003+A1:2008	Household and similar electrical appliances – Safety – Part 2-28: Particular requirements for sewing machines	
	IEC 60335-2-29:2009, EN 60335-2-29:2010	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	
	IEC 60335-2- 30:2009+COR1:2014 EN 60335-2-30:2009+ A11:2012+AC:2014	Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters	

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	IEC 60335-2-31:2012; EN 60335-2-31: 2014	Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods	
	IEC 60335-2-32:2002 +A1:2008+A2:2013 EN 60335-2-32:2003 +A1:2008+A2: 2015	Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances	
Compressor	IEC 60335-2-34:2012+A1:2015 EN 60335-2-34:2013	Household and similar electrical appliances - Safety - Part 2-34: Particular requirements for motor-compressors	
Household and similar equipment	IEC 60335-2-35:2012 EN 60335-2-35:2016	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters	
	IEC 60335-2-40:2013+AMD1:2016 CSV EN 60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012/AC: 2013 DIN EN 60335-2-40:2010 DIN EN 60335-2-40 (2014-01) BS EN 60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012	Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air conditioners and dehumidifiers	
	IEC 60335-2-41:2012 EN 60335-2-41:2003+A1:2004 +A2:2010	Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps	
	IEC 60335-2-43:2008, EN 60335-2-43:2008	Household and similar electrical appliances - Safety - Part 2-43: Particular requirements for clothes dryers and towel rails	

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	IEC 60335-2-44:2002+A1:2008+A2:2011, EN 60335-2-44:2002+A1:2008+A2:2012	Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers	
	IEC 60335-2-45:2002+A1:2008+A2:2011, EN 60335-2-45:2002+A1:2008+A2:2012	Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances	
	IEC 60335-2-51:2002+A1:2008+ A2:2011 EN 60335-2-51:2003+A1:2008+ A2:2012	Household and similar electrical appliances - Safety - Part 2-51:Particular requirements for stationary circulation pumps for heating and service water installations	
	IEC 60335-2-52 :2002+A1 :2008 EN 60335-2-52 :2003+A1 :2008+A11 :2010	Household and similar electrical appliances - Safety - Part 2-52: Particular requirements for oral hygiene appliances	
	IEC 60335-2-53:2011 EN 60335-2-53:2011	Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna heating appliances	
	IEC 60335-2-54:2008+A1:2015 EN 60335-2-54:2008+A12:2012+AC:2015	Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam	
	IEC 60335-2-55:2002+A1:2008 EN 60335-2-55:2003+A1:2008	Household and similar electrical appliances - Safety - Part 2-55:Particular requirements for electrical appliances for use with aquariums and garden	

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	IEC 60335-2-59(ed.3):2002+A1:2006+A2:2009 EN60335-2-59:2003+A1:2006+A2:2009	Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers	
	IEC 60335-2-60: 2002 +A1:2004+A2:2008 EN 60335-2-60: 2003 +A1:2005+A2:2008+A11:2010+A12:2010	Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths	
	IEC 60335-2-63:1990 EN 60335-2-63: 1993	Safety of household and similar electrical appliances Part 2-63: Particular requirements for commercial electric water boilers and liquid heaters	
	IEC 60335-2-64:2002+A1:2007 EN 60335-2-64:2000 +A1:2002	Safety of household and similar electrical appliances Part 2-64: Particular requirements for commercial electric kitchen machines	
Compressor	IEC 60335-2-65: 2008 EN 60335-2-65: 2008	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances	
Household and similar equipment	IEC 60335-2-66:2012 IEC 60335-2-66:2003+A1:2008+A2:2011 EN 60335-2-66:2003+A1:2008+A2 : 2012	Household and similar electrical appliances - Safety - Part 2-66: Particular requirements for water-bed heaters	
	IEC 60335-2-75:1998, IEC 60335-2-75:2012+A1:2015 EN 60335-2-75: 2004+A1: 2005+A11: 2006+A2: 2008+A12: 2010	Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	
	IEC 60335-2-80:2015 EN 60335-2-80:2003 + A1:2004+A2:2009	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans	

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	IEC 60335-2-82:2002+A1:2008+A2:2015 EN 60335-2-82: 2008	Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines	
	IEC 60335-2-84: 2002 +A1:2008+A2:2013 EN 60335-2-84:2003 +A1:2008	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilets	
	IEC 60335-2-85:2008 EN 60335-2-85:2003+A1:2008+A2:2012	Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers	
	IEC 60335-2-89:2002+A1:2005+A2:2007 IEC 60335-2-89:2010+A1:2012+A2:2015 EN 60335-2-89:2010	Safety of household and similar electrical appliances—Part 2-89:Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	
	IEC 60335-2-90:2015 EN 60335-2-90 :2006+A1 :2010	Household and similar electrical appliances Safety - Part 2-90: Particular requirements for commercial microwave ovens	
	IEC 60335-2-91:2008 EN 50636-2-91-2014	Household and similar electrical appliances - Safety - Part 2-91:Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers	
	IEC 60335-2-95:2011+AMD1:2015 EN 60335-2-95:2015+A1:2015	Household and similar electrical appliances - Safety - Part 2-95:Particular requirements for drives for vertically moving garage doors for residential use	
	IEC 60335-2-97:2002 +A1:2005+A2:2008 EN 60335-2-97:2006+A11:2008 +A2:2010+A12:2015	Household and similar electrical appliances - Safety - Part 2-97:Particular requirements for drives for rolling shutters, awnings, blinds and similar equipments	

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Compressor	IEC 60335-2-98: 2008, EN 60335-2-98: 2008	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	
Compressor	IEC 60335-2-101:2002 +A1:2008+AMD2:2014 CSV EN 60335-2-101:2002+ A1:2008+A2:2014	Household and similar electrical appliances - Safety - Part 2-101: Particular requirements for Vaporizers	
	IEC 60335-2-103:2015 EN 60335-2- 103:2003+A11:2009	Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows	
Household and similar equipment	IEC 60335-2-105:2004 +A1:2008+A2:2013 EN 60335-2-105:2005 +A1:2008+A11:2010	Household and similar electrical appliances-safety-Part 2-105:particular requirements for multifunctional shower cabinets	
	IEC 50304:1999+A1:2005+A2:2008 EN 50304 : 2009+A1:2010	Electric cooking ranges, hobs, ovens and grills for household-Methods for measuring performance	
	IEC 60442:1998+A1:2003 EN 60442:1998+A1:2003	Electric toasters for household and similar purposes-Methods for measuring performance	
	IEC 61817:2000+A1:2004 EN 61817:2001+A1:2004	Household probable appliances for cooking, grilling and similar use-Methods for measuring performance	
	IEC 60456 :2010 EN 60456 :2011	Clothes washing machines for household use - Methods for measuring the performance	
	EN 50229: 2015	Electric clothes washer-dryers for household use-Methods of measuring the performance	
	IEC 60379:1987 EN 60379:2004	Methods for measuring the performance of electric storage water-heaters for household purposes	
	IEC 61121:2012 EN 61121:2013	Tumble dryers for household use - Methods for measuring the performance	

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	EN 50366:2006 DIN EN 50366:2006	Household and similar electrical appliances- Electromagnetic fields-Methods for evaluation and measurement	
	EN 14511-1:2013	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling--Part 1:Terms and definitions	
	EN 14511-2: 2013	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling--Part 2:Test conditions	
	EN 14511-3: 2013	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling--Part 3:Test methods	
	EN 14511-4: 2013	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling--Part 4:requirements	
	EN 153:2006	Methods of measuring the energy consumption of electric mains operated household refrigerators, frozen food storage cabinets, food freezers and their combinations, together with associated characteristics	
	EN ISO 8561:1996	Household frost-free refrigerating appliances - Refrigerators, refrigerator-freezers, frozen food storage cabinets and food freezers cooled by internal forced air circulation - Characteristics and test methods	
	EN 28187:1992	Household refrigerating appliances refrigerator-freezers-characteristics and test methods	
	EN ISO 5155:1996	Household refrigerating appliances-frozen food storage cabinets and food freezers-characteristics and test methods	
	ISO 7371:1996	Household refrigerating appliances - Refrigerators with or without low-temperature compartment - Characteristics and test methods	
	EN 14825:2013	Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling. Testing and rating at part load conditions and calculation of seasonal performance	
	EN ISO 15502:2013	Household refrigerating appliances-Characteristics and test methods	

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	EN 16147:2011+AC:2011	Heat pumps with electrically driven compressors - Testing and requirements for marking of domestic hot water units	
	EN 1886:2007	Ventilation For Buildings - Air Handling Units - Mechanical Performance	
Motor	IEC 60034-1-2010 EN 60034-1 : 2010	Rotating electrical machines — Part 1: Rating and performance	
Lighting	IEC 61347-1:2015 EN 61347-1:2015	Lamp controlgear-Part 1:General and safety requirements	
	IEC 61347-2-2:2011 EN 61347-2-2: 2012	Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps	
	IEC 61347-2-3 :2011 EN 61347-2-3: 2011	Lamp controlgear – Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps	
	IEC 61347-2-8 :2006 EN 61347-2-8: 2006	Lamp controlgear – Part 2-8: Particular requirements for ballasts for fluorescent lamps	
	IEC 61347-2-9 :2012 EN 61347-2-9: 2013	Lamp controlgear Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)	
	IEC 60968 :2015 EN 60968 : 2015	Self-ballasted lamps for general lighting services – Safety requirements	
	IEC 60598-1: 2014 EN 60598-1: 2015	Luminaires - Part 1: General requirements and tests	
	IEC 60598-2-1(ed.1);am1:1987, EN 60598-2-1: 1989	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires	
	IEC 60598-2-2: 2011 EN 60598-2-2:2012	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	
	IEC 60598-2-3 :2011 EN 60598-2-3: 2011	Luminaires-part 2-3:particular requirements- luminaires for road and street lighting	
IEC 60598-2-4:1997 EN 60598-2-4: 1997	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires		

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	IEC 60598-2-5: 2015 EN 60598-2-5: 2015	Luminaires - Part 2-5: Particular requirements - Flooding lights	
	IEC 60598-2-6:1996 EN 60598-2-6: 1997	Luminaires- Part 2-6: Particular requirements - Luminaires with built-in transformers for filament lamps	
	IEC 60598-2-20:2014 EN 60598-2-20:2015	Luminaires – Part 2-20: Particular requirements – Lighting chains	
IT and office equipment Electronics, entertainment	IEC 60950-1: 2005+A1:2009+A2:2013 EN60950-1: 2006+A11:2009+A1:2010+A12: 2011+A2:2013	Information technology equipment - Safety - Part 1: General requirements	
	IEC 62087: 2011 EN 62087:2009	Methods of measurement for power consumption of audio, video, and related equipment	
	IEC 62040-1:2008+A1:2013 EN 62040-1:2008+A1: 2013	Uninterruptible power systems (UPS) -- Part 1: General and safety requirements for UPS	
	IEC 60065: 2014 EN 60065:2014	Audio,video and similar electronic apparatus-Safety requirements	
	IEC 62087: 2011 EN 62087:2009	Methods of measurement for the power consumption of audio, video and related equipment	Only single phase Equipment variation
Safety transformers and similar equipment	IEC 61558-1: 2009 EN 61558-1:2009	Safety of power transformers, power supplies, reactors and similar products -- Part 1: General requirements and tests	
IT and office equipment Electronics, entertainment	IEC 61558-2-1:2007 EN 61558-2-1:2007	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	
	IEC 61558-2-2:2007 EN 61558-2-2:2007	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	

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	IEC 61558-2-4:2009 EN 61558-2-4:2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V -- Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	
	IEC 61558-2-5:2010 EN 61558-2-5:2010	Safety of transformers, reactors, power supply units and combinations thereof -- Part 2-5: Particular requirements and tests for transformer for shavers, power supply units for shavers and shaver supply units	
	IEC 61558-2-6:2009 EN 61558-2-6:2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V -- Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	
	IEC 61558-2-7:2007 EN 61558-2-7:2007	Safety of power transformers, power supplies, reactors and similar products -- Part 2-7: Particular requirements and tests for transformers and power supplies for toys	
	EN 61558-2-16:2009+A1:2013 IEC 61558-2-16:2009+A1:2013	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V -- Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units	
Energy consumption	IEC62301: 2005 EN62301: 2005	Household electrical appliances - Measurement of standby power	
EMC	CISPR 14-1:2005+A1:2008 + A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -- Part 1: Emission	
EMC	CISPR 14-2:1997+A1:2001 + A2:2008	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -- Part 2: Immunity - Product family standard	
EMC	IEC 61000-3-2:2014	Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)	

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EMC	IEC61000-3-3:2013	Electromagnetic compatibility (EMC) -- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	
EMC	IEC 61000-3-11:2000	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection	
EMC	IEC 61000-3-12:2011	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage	
EMC	IEC 61000-6-1:2005	Electromagnetic compatibility (EMC) -- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	
EMC	IEC 61000-6-2:2005	Electromagnetic compatibility (EMC) -- Part 6-2: Generic standards - Immunity for industrial environments	
EMC	IEC 61000-6-3:2006 + A1:2010	Electromagnetic compatibility (EMC) -- Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	
EMC	IEC 61000-6-4:2006 + A1:2010	Electromagnetic compatibility (EMC) -- Part 6-4: Generic standards - Emission standard for industrial environments	
EMC	CISPR 11:2006	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
EMC	CISPR 11:2015	Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement	
EMC	CISPR 13:2009 + A1:2015	Sound and television broadcast receivers and associated equipment — Radio disturbance characteristics — Limits and methods of measurement	
EMC	CISPR 15:2013 + A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	

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EMC	CISPR 22:2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EMC	CISPR 32:2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
EMC	CISPR 24:2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EMC	IEC 61547:2009	Equipment for general lighting purposes - EMC immunity requirements	
EMF	IEC 62233:2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	
EMC	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC)- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	
EMC	IEC 61000-4-3:2007	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Up to 2.7 GHz: 20 V/m
EMC	IEC 61000-4-4:2010	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	IEC 61000-4-5:2005	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	IEC 61000-4-6:2008	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	IEC 61000-4-8:2009	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	

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EMC	IEC 61000-4-11:2004	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	
EMC	IEC 61000-4-13:2009	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	
EMC	CISPR 25: 2008	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices —Limits and methods of measurement	
EMC	ISO 7637-2:2011	Road vehicles — Electrical disturbances from conduction and coupling — Part 2:Electrical transient conduction along supply lines only	
EMC	ISO 7637-3:2016	Road vehicles — Electrical disturbances from conduction and coupling — Part 3:Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	
EMC	ISO 11452-2:2004	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2: Absorber-lined shielded enclosure	
EMC	ISO 11452-4:2011	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 4: Bulk current injection (BCI)	
EMC	ISO 11452-8:2015	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 8: Immunity to magnetic fields	
EMC	ISO 10605:2008	Road vehicles — Test methods for electrical disturbances from electrostatic discharge	
EMC	SAE J551-5:2012	Limits and test methods of magnetic and electric field strength from electric vehicles, Broadband, 9 kHz to 30 MHz	

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EMC	CISPR 12:2009	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices —Limits and methods of measurement	
EMC	ISO 10605:2008	Road vehicles — Test methods for electrical disturbances from electrostatic discharge	