

## Deutsche Akkreditierungsstelle GmbH

### Annex to the Accreditation Certificate D-PL-18968-01-00 according to ISO/IEC 17025:2017

Period of validity: 2019-10-18 to 2024-10-17 Date of issue: 2019-10-18

Holder of certificate:

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Tests in the fields:

**Electromagnetic Compatibility (EMC)**

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	IEC 61000-3-2:2014 IEC 61000-3-2:2018  EN 61000-3-2:2014 AS/NZS 61000.3.2:2013	Electromagnetic compatibility(EMC)--Part3-2:Limits- Limits for harmonic current emissions(equipment input current<=16A per phase)	
EMC	IEC61000-3-3:2013 IEC61000-3-3:2013+AMD1:2017  EN61000-3-3:2013 AS/NZS 61000.3.3:2012	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 $\leq 16A$ per phase and not subject to conditional connection.	

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EMC	IEC 61000-3-11:2000 IEC 61000-3-11:2017  EN 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 $\leq 75A$ and subject to conditional connection	
EMC	IEC 61000-3-12:2011 IEC 61000-3-12:2011+IS1:2012  EN 61000-3-12:2011 EN 61000-3-12:2011+AC:2013	Electromagnetic compatibility (EMC) --Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems	Without input current $>16A$ and $\leq 75A$ per phase
EMC	IEC61000-4-2:2008 EN61000-4-2:2009	Electromagnetic compatibility (EMC)--Part 4-2: Testing and measuring techniques-Electrostatic discharge immunity test	
EMC	IEC61000-4-3:2006+ A1:2007+A2:2010  EN61000-4-3:2006+ A1:2008+A2:2010	Electromagnetic compatibility (EMC) --Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
EMC	IEC61000-4-4:2012 EN61000-4-4:2012	Electromagnetic compatibility(EMC) --Part 4-4: Testing and measurement techniques-Electrical fast transient/burst immunity test	
EMC	IEC61000-4-5:2005 IEC61000-4-5:2014+A1:2017  EN61000-4-5:2006 EN61000-4-5:2014+A1:2017	Electromagnetic compatibility (EMC) -- Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	IEC61000-4-6:2013 IEC61000-4-6:2013+COR1:2015  EN61000-4-6:2014 EN61000-4-6:2014+AC:2015	Electromagnetic compatibility (EMC) -- Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	

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EMC	IEC61000-4-8:2009 EN61000-4-8:2010	Electromagnetic compatibility (EMC) -- Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	
EMC	IEC61000-4-11:2006 IEC61000-4-11:2004+A1:2017  EN61000-4-11:2004 EN61000-4-11:2004+A1:2017	Electromagnetic compatibility (EMC)--Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	
EMC	IEC61000-4-12:2006 IEC61000-4-12:2017  EN61000-4-12:2006 EN61000-4-12:2017	Electromagnetic compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	
EMC	IEC61000-6-1:2007 IEC61000-6-1:2016  EN IEC 61000-6-1:2019 EN61000-6-1:2007	Electromagnetic compatibility (EMC) -- Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	Without IEC61000-4-21 EN61000-4-21
EMC	IEC61000-6-2:2005 IEC61000-6-2:2016  EN61000-6-2:2005 EN IEC 61000-6-2:2019	Electromagnetic compatibility(EMC)-Part6-2: Generic standard -Immunity for industrial environments	Without IEC61000-4-21 EN61000-4-21
EMC	IEC61000-6-3:2006 +A1:2010+AC:2011  EN 61000-6-3:2007 +A1:2011+AC:2012	Electromagnetic compatibility (EMC) -- Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	Without IEC61000-4-20 EN61000-4-20
EMC	IEC61000-6-4:2006+ A1:2010 IEC61000-6-4:2018  EN61000-6-4:2007+ A1:2011+AC:2012	Electromagnetic compatibility (EMC) -- Part 6-4: Generic standards - Emission standard for industrial environments	Without IEC61000-4-20 EN61000-4-20

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EMC	IEC61547:2009 EN61547:2009	Equipment for general lighting purposes –EMC immunity requirements	
EMC	IEC62040-2:2005 IEC62040-2:2016 EN62040-2:2006+AC:2006 EN IEC 62040-2:2018	Uninterruptible power systems(UPS)-Part 2: Electromagnetic compatibility(EMC) requirements	Max rated current 3x32A
EMC	CISPR11:2009+A1:2010 CISPR11:2015+A1:2016+A2:2019 CSV EN55011:2009+A1:2010 EN55011:2016+A1:2017 AS/NZS CISPR11:2011	Industrial, scientific and medical(ISM)radio-frequency equipment-Electromagnetic disturbance characteristics-Limits and methods of measurement	
EMC	CISPR13:2009 CISPR13:2009+A1:2015 EN55013:2013+A1:2016 EN55013:2001+A1:2003+A2:2006 AS/NZS CISPR13:2012	Sound and television broadcast receivers and Associated equipment-Radio disturbance characteristics-Limits and methods of measurement	
EMC	CISPR14-1:2005+A1:2008+A2:2011 CISPR14-1:2016+AC1:2017+AC2:2017 EN55014-1:2006+A1:2009+A2:2011 EN 55014-1:2017 AS/NZS CISPR14.1:2013	Electromagnetic compatibility-Requirements for household appliances, electric tools and similar apparatus-Part1:Emission	

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EMC	CISPR14-2:1997+ A1:2011+A2:2008 CISPR14-2:2015  EN55014-2:1997+ A1:2001+A2:2008 EN55014-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -- Part 2: Immunity - Product family standard	
EMC	CISPR15:2013 CISPR15:2018  EN55015:2013 EN55015:2013+A1:2015 AS/NZS CISPR 15:2011	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EMC	CISPR 20:2006 CISPR 20:2006+A1:2013  EN 55020:2007+A11:2011 EN 55020:2007+A12:2016	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement	
EMC	CISPR22 :2008	Information technology equipment-Radio disturbance characteristics -Limits and methods of measurement	
EMC	CISPR24:2010+A1:2015  EN55024:2010 EN55024:2010+AC:2015	Information technology equipment-Immunity characteristics-Limit and methods of measurement	
EMC	EN50130-4:2011+A1:2014	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems; German version EN 50130-4:2011 + A1:2014	
EMC	EN61326-1:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 65A/862/CD:2018); Text in German and English	

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EMC	EN55035:2017 CISPR 35:2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
EMC/ Radio	ETSI EN 300 220-1 V3.1.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz - Part 1: Technical characteristics and methods of measurement	
EMC/ Radio	ETSI EN 300 220-2 V3.2.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz - Part 2: Harmonized Standard for access to radio spectrum for non specific radio equipment	
EMC/ Radio	ETSI EN 300 220-3-1 V2.2.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz - Part 3-1: Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU - Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)	
EMC/ Radio	ETSI EN 300 220-3-2:V1.1.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz Part 3-2: Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz	
EMC/ Radio	ETSI EN 300 330 V2.1.1	Short Range Devices (SRD) - Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz - Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
EMC/ Radio	ETSI EN 300 328 V2.2.1 ETSI EN 300 328 V2.2.2	Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz band - Harmonized Standard for access to radio spectrum	
EMC/ Radio	ETSI EN 300 440 V2.2.1	Short Range Devices (SRD) - Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Harmonized Standard for access to radio spectrum	

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EMC/ Radio	ETSI EN 301 489-1 V2.1.1	Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 1: Common technical requirements - Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	
EMC/ Radio	ETSI EN 301 489-1 V2.2.2	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for Electromagnetic Compatibility	
EMC/ Radio	ETSI EN 301 489-3 V2.1.1	Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz - Harmonized standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC/ Radio	ETSI EN 301 489-7 V1.3.1	Electromagnetic compatibility and Radio spectrum Matters; Electromagnetic Compatibility standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems(GSM and DCS)	
EMC/ Radio	ETSI EN 301 489-17 V3.1.1 ETSI EN 301 489-17 V3.2.0	Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 17: Specific conditions for Broadband Data Transmission Systems - Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	FCC Part 15 Subpart B/C/E : 2019	Radio frequency devices	
EMC	FCC Part 18:2019	Industrial, Scientific, and Medical Equipment	

**Technical Responsibility for the test reports:**

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