

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11020-03-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 11.11.2020

Date of issue: 18.12.2020

Holder of certificate:

**SGS Germany GmbH
Rödingsmarkt 16, 20459 Hamburg**

At the location:

**SGS Germany GmbH
Hofmannstr. 50, 81379 München**

Tests in the fields:

**Electromagnetic Compatibility (EMC), Safety of Electrical Appliances, Batteries,
Luminaires, Low-voltage Switchgear and Controlgear Assemblies, Environmental Simulation,
Radio Telecommunication**

Within the scope of accreditation marked with *), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

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

Flexible accreditation according to category 3, page 2 to 110: Environmental Simulation, EMC, Radio Telecommunication, Safety of Electrical Appliances, Luminaires, Batteries

No flexible accreditation: table page 110 to 115: EMC, Radio Telecommunication

The management system requirements in DIN EN ISO/IEC 17025 are written in language relevant to operations of testing laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

***Flexible accreditation according to category 3**

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Environmental Simulation	IEC 60068-2-x: Environmental testing / Basic environmental testing procedures		
	IEC 60068-2-1 (1990-04 (am1 1993-02, am2 1994-06), 2007-03)	Tests A: Cold	
	IEC 60068-2-2 (1974-01 (am1 1993-01, am2 1994-05), 2007-07)	Tests B: Dry Heat	
	IEC 60068-2-14 (2009-01)	Tests N: Change of temperature	Only Method Nb
	IEC 60068-2-30 (2005-08)	Test Db: Damp heat, cyclic (12 + 12 hour cycle)	
	IEC 60068-2-38 (2009-01)	Test Z/AD: Composite temperature/humidity cyclic test	
	IEC 60068-2-78 (2012-10)	Test Cab: Damp heat, steady state	
Environmental Simulation	Other Standards		
	UN ST/SG/AC.10/11 (Rev 5 AMD1, 2013-01) (Rev 6, 2015-01)	United Nations Recommendations on the Transport of dangerous goods Manual of Test and Criteria	Only Section 38.3 Lithium metal and lithium ion batteries, T5, T6, T7, T8 (T1, T2, T3, T4 are included in the scope of the e- Mobility Lab, Gelting)

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
	Telcordia GR-63-CORE (2012-04)	NEBS Requirements: Physical Protection	Only section 4.6, 5.6 (Acoustic Noise) 5.2 (Fire Test Methods)
Basic Standards *			
EMC	IEC 61000-4-2: 2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	
EMC	EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	
EMC	DIN EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2008); German version EN 61000-4-2:2009	
EMC	IEC 61000-4-3: 2006 +A1:2008 +A2:2010	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
EMC	EN 61000-4-3: 2006 +A1:2008 +A2:2010	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
EMC	DIN EN 61000-4-3:2011	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2006 + A1:2007 + A2:2010); German version EN 61000-4-3:2006 + A1:2008 + A2:2010	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61000-4-4: 2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	DIN EN 61000-4-4:2013	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012); German version EN 61000-4-4:2012	
EMC	IEC 61000-4-5: 2005	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	IEC 61000-4-5: 2014 + A1:2017	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	EN 61000-4-5: 2006	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	EN 61000-4-5: 2014 + A1:2017	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	DIN EN 61000-4-5:2015	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014); German version EN 61000-4-5:2014	
EMC	DIN EN 61000-4-5:2019	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014 + A1:2017); German version EN 61000-4-5:2014 + A1:2017	

Valid from: 11.11.2020
Date of issue: 18.12.2020

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61000-4-6: 2013	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	DIN EN 61000-4-6:2014	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013); German version EN 61000-4-6:2014	
EMC	IEC 61000-4-8: 2009	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	1) Tests with frequencies 50Hz; 60Hz: test level 1000A/m only for test devices with "small" dimensions 2) Tests with frequencies 16 2/3, 400Hz: only „small“ test level for test devices with "small" dimensions

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61000-4-8: 2010	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	1) Tests with frequencies 50Hz; 60Hz: test level 1000A/m only for test devices with "small" dimensions 2) Tests with frequencies 16 2/3, 400Hz: only „small“ test level for test devices with "small" dimensions
EMC	DIN EN 61000-4-8:2010	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test (IEC 61000-4-8:2009); German version EN 61000-4-8:2010	1) Tests with frequencies 50Hz; 60Hz: test level 1000A/m only for test devices with "small" dimensions 2) Tests with frequencies 16 2/3, 400Hz: only „small“ test level for test devices with "small" dimensions
EMC	IEC 61000-4-9: 2016	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques; Impulse magnetic field immunity test	
EMC	EN 61000-4-9: 2016	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques; Impulse magnetic field immunity test	
EMC	DIN EN 61000-4-9:2017	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test (IEC 61000-4-9:2016); German version EN 61000-4-9:2016	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61000-4-10: 2016	Electromagnetic compatibility (EMC) - Part 4-10: Testing and measurement techniques; Damped oscillatory magnetic field immunity test	Test level 500 A/m only possible for test devices with "small" dimensions
EMC	EN 61000-4-10: 2017	Electromagnetic compatibility (EMC) - Part 4-10: Testing and measurement techniques; Damped oscillatory magnetic field immunity test	Test level 500 A/m only possible for test devices with "small" dimensions
EMC	DIN EN 61000-4-10:2018	Electromagnetic compatibility (EMC) - Part 4-10: Testing and measurement techniques - Damped oscillatory magnetic field immunity test (IEC 61000-4-10:2016); German version EN 61000-4-10:2017	Test level 500 A/m only possible for test devices with "small" dimensions
EMC	IEC 61000-4-11: 2004 +A1:2017	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	
EMC	EN 61000-4-11: 2004 +A1:2017	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	
EMC	DIN EN 61000-4-11:2019	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004 + A1:2017); German version EN 61000-4-11:2004 + A1:2017	
EMC	IEC 61000-4-12: 2006	Electromagnetic compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	No coupling network for three-phase current available

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61000-4-12: 2006	Electromagnetic compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	No coupling network for three-phase current available
EMC	DIN EN 61000-4-12:2007	Electromagnetic compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test (IEC 61000-4-12:2006); German version EN 61000-4-12:2006	No coupling network for three-phase current available
EMC	IEC 61000-4-13: 2002 +A1:2009 +A2:2015	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	EN 61000-4-13: 2002 +A1:2009 +A2:2016	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	DIN EN 61000-4-13:2016	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 (IEC 61000-4-13:2002 + A1:2009 + A2:2015); German version EN 61000-4-13:2002 + A1:2009 + A2:2016	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61000-4-14: 2009	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase	
EMC	EN 61000-4-14: 1999 +A1:2004 +A2:2009	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-14:2010	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-14:1999 + A1:2001 + A2:2009); German version EN 61000-4-14:1999 + A1:2004 + A2:2009	
EMC	IEC 61000-4-16: 2015	Electromagnetic Compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
EMC	EN 61000-4-16: 2016	Electromagnetic Compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 61000-4-16:2016	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz (IEC 61000-4-16:2015); German version EN 61000-4-16:2016	
EMC	IEC 61000-4-17: 2009	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	
EMC	EN 61000-4-17: 1999 +A1 :2004 +A2 :2009	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	
EMC	DIN EN 61000-4-17/A2:2009	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test (IEC 61000-4-17:1999/A2:2008); German version EN 61000-4-17:1999/A2:2009	
EMC	IEC 61000-4-18: 2019	Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test	
EMC	IEC 61000-4-18: 2006 +A1:2010	Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61000-4-18: 2007 +A1:2010	Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test	
EMC	DIN 61000-4-18 /A1:2011	Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test (IEC 61000-4-18:2006/A1:2010); German version EN 61000-4-18:2007/A1:2010	
EMC	IEC 61000-4-27: 2000 +A1:2009	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	EN 61000-4-27: 2000 + A1:2009	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-27:2009	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-27:2000 + A1:2009); German version EN 61000-4-27:2000 + A1:2009	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61000-4-28: 2000 +A1:2004 +A2:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	EN 61000-4-28: 2000 +A1:2004 +A2:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-28:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-28:1999 + A1:2001 + A2:2009); German version EN 61000-4-28:2000 + A1:2004 + A2:2009	
EMC	IEC 61000-4-29: 2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques; Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
EMC	EN 61000-4-29: 2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques; Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 61000-4-29:2001	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques; Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests (IEC 61000-4-29:2000); German version EN 61000-4-29:2000	
EMC	IEC 61000-4-34: 2005 +A1:2009	Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase	
EMC	EN 61000-4-34: 2007 +A1:2009	Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase	
EMC	DIN EN 61000-4-34:2010	Electromagnetic compatibility (EMC) - Part 4-34: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase (IEC 61000-4-34:2005 + A1:2009 + Cor. :2009); German version EN 61000-4-34:2007 + A1:2009	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Generic Standards*			
EMC	IEC 61000-6-1 :2005 IEC 61000-6-1 :2016	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	
EMC	EN 61000-6-1 :2007 FPREN 61000-6-1:2015	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	
EMC	DIN EN 61000-6-1:2007	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2005); German version EN 61000-6-1:2007	
EMC	DIN EN 61000-6-1:2016 Entwurf	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments (IEC 77/487/CDV:2015); German version FprEN 61000-6- 1:2015	
EMC	IEC 61000-6-2: 2005 IEC 61000-6-2: 2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	
EMC	EN 61000-6- 2: 2005 FPREN 61000-6-2:2015	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 61000-6-2:2006	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005); German version EN 61000-6-2:2005	
EMC	DIN EN 61000-6-2:2016 Entwurf	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 77/488/CDV:2015); German version FprEN 61000-6-2:2015	
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	Only SAC
EMC	EN 61000-6-3: 2007 +A1 :2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	Only SAC
EMC	DIN EN 61000-6-3:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010); German version EN 61000-6-3:2007 + A1:2011	Only SAC
EMC	IEC 61000-6-4: 2006 +A1:2010	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	Only SAC

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61000-6-4: 2007 +A1:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	Only SAC
EMC	DIN EN 61000-6-4:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010); German version EN 61000-6-4:2007 + A1:2011	Only SAC
EMC	IEC 61000-6-5: 2015	Electromagnetic compatibility (EMC) – Part 6-5: Generic standards – Immunity for power station and substation environments	
EMC	EN 61000-6-5: 2015	Electromagnetic compatibility (EMC) – Part 6-5: Generic standards – Immunity for power station and substation environments	
EMC	DIN EN 61000-6-5:2016	Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment (IEC 61000-6-5:2015); German version EN 61000-6-5	
EMC	IEC 61000-6-7: 2014	Electromagnetic compatibility(EMC) Part 6-7: Generic standards - Immunity requirements for safety-related systems and equipment intended to perform functions in a safety-related system (functional safety) in industrial environments	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61000-6-7: 2015	Electromagnetic compatibility(EMC) Part 6-7: Generic standards - Immunity requirements for safety-related systems and equipment intended to perform functions in a safety-related system (functional safety) in industrial environments	
EMC	DIN EN 61000-6-7:2015	Electromagnetic compatibility (EMC) - Part 6-7: Generic standards - Immunity requirements for equipment intended to perform functions in a safety-related system (functional safety) in industrial locations (IEC 61000-6-7:2014); German version EN 61000-6-7:2015	
Product family standards*			
EMC	1 TR 9 :2016	Electromagnetic compatibility of equipment Deutschen Telekom AG, telecommunications technology	
EMC	EN 12015:2014	Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks – Emission	
EMC	DIN EN 12015: 2014	Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks - Emission; German version EN 12015:2014	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 12016:2013	Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks – Immunity	
EMC	DIN EN 12016: 2013	Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks - Immunity; German version EN 12016:2013	
EMC	ETS 300 132-1: V2.1.1, 2019	Environmental Engineering (EE); Power supply interface at the input to Information and Communication Technology (ICT) equipment; Part 1: Alternating Current (AC)	
EMC	EN 300 132-2 V2.6.1, 2019	Environmental Engineering (EE); Power supply interface at the input of Information and Communication Technology (ICT) equipment; Part 2: -48 V Direct Current (DC)	
EMC	EN 300 132-3-0 V2.1.1, 2012	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V	
EMC	EN 300 132-3-1 V2.1.1, 2012	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 300 386 V2.1.1, 2016	Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; Electro Magnetic Compatibility (EMC) requirements	
EMC	EN 50090-2-2: 1996 +A1:2002 +A2:2007	Home and Building Electronic Systems (HBES) - Part 2-2: System overview - General technical requirements	Only chapter 7; EMC
EMC	DIN EN 50090-2-2:2007	Home and Building Electronic Systems (HBES) - Part 2-2: System overview - General technical requirements; German version EN 50090-2-2:1996 + Corrigendum:1997 + A1:2002 + A2:2007	Only chapter 7; EMC
EMC	EN 50090-8: 2000	Home and Building Electronic Systems (HBES) - Part 8: Conformity assessment of products	Only chapter 4.4, EMC and without products according to EN 50065-1
EMC	DIN EN 50090-8: 2001	Home and Building Electronic Systems (HBES) - Part 8: Conformity assessment of products; German version EN 50090-8:2000	Only chapter 4.4, EMC and without products according to EN 50065-1
EMC	EN 50130-4: 2011 +A1:2014	Alarm systems - Part 4: Electromagnetic compatibility; Product family standard: Immunity requirements for components of fire, intruder and social alarm systems	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 50130-4: 2015	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	EN 50293:2012	Electromagnetic compatibility - Road traffic signal systems - Product standard	
EMC	DIN EN 50293: 2013	Road traffic signal systems - Electromagnetic compatibility; German version EN 50293:2012	
EMC	EN 50412-2-1: 2005	Power line communication apparatus and systems used in low-voltage installations in the frequency range 1,6 MHz to 30 MHz - Part 2-1: Residential, commercial and industrial environment - Immunity requirements	
EMC	DIN EN 50412-2-1:2006	Power line communication apparatus and systems used in low-voltage installations in the frequency range 1,6 MHz to 30 MHz - Part 2-1: Residential, commercial and industrial environment - Immunity requirements; German version EN 50412-2-1:2005	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 50491-5-1: 2010	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up; German version	
EMC	DIN EN 50491-5-1:2010	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up; German version EN 50491-5-1:2010	
EMC	EN 50491-5-2: 2010	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment; German version	
EMC	DIN EN 50491-5-2:2010	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment; German version EN 50491-5-2:2010	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 50491-5-3: 2010	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industry environment; German version	
EMC	DIN EN 50491-5-3:2010	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industry environment; German version EN 50491-5-3:2010	
EMC	EN 50561-1: 2013	Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 1: Apparatus for in-home use	
EMC	DIN EN 50561-1: 2014	Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 1: Apparatus for in-home use; German version EN 50561-1:2013	
EMC	CISPR 11:2016 +A1:2017 + A2:2019	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	Only 3m, 10m distance

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 55011:2016 +A1:2017	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	Only 3m, 10m distance
EMC	DIN EN 55011: 2018	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015, modified + A1:2017); German version N 55011:2016 + A1:2017	Only 3m, 10m distance
EMC	CISPR 14-1:2016	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Without IEC 61000-4-20 (TEM waveguides)
EMC	EN 55014-1: 2017	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Without IEC 61000-4-20 (TEM waveguides) and IEC 61000-4-22 (FAR)
EMC	DIN EN 55014-1: 2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2016 + COR1:2016); German version EN 55014-1:2017	Without IEC 61000-4-20 (TEM waveguides) and IEC 61000-4-22 (FAR)
EMC	CISPR 14-2: 2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	Without IEC 61000-4-22 (FAR)

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 55014-2: 2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	Without IEC 61000-4-22 (FAR)
EMC	DIN EN 55014-2: 2016	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2015); German version EN 55014-2:2015	Without IEC 61000-4-22 (FAR)
EMC	CISPR 15:2013 CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EMC	EN 55015:2013 +A1:2015 FprEN 55015: 2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EMC	DIN EN 55015:2016	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013 + IS1:2013 + IS2:2013 + A1:2015); German version EN 55015:2013 + A1:2015	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 55015: 2018 (Draft)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (IEC CIS/F/733/FDIS:2018); German and English version FprEN 55015:2018	
EMC	CISPR 22:2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EMC	EN 55022:2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EMC	DIN EN 55022: 2011	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 22:2008, modified); German version EN 55022:2010	
EMC	CISPR 24:2010 +A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EMC	EN 55024:2010+A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EMC	DIN EN 55024: 2016	Information technology equipment - Immunity characteristics - Limits and methods of measurement (CISPR 24:2010 + Cor.:2011 + A1:2015); German version EN 55024:2010 + A1:2015	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	CISPR 25, Ed. 4.0:2016 +COR1:2017	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	
EMC	EN 55025:2017 + AC:2017	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	
EMC	DIN EN 55025: 2018	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers (CISPR 25:2016 + COR1:2017); German version EN 55025:2017 + AC:2017	
EMC	CISPR 32:2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EMC	CISPR 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	Without FAR. Without "Home satellite receiving systems"
EMC	EN 55032:2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EMC	EN 55032:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	Without FAR. Without "Home satellite receiving systems"

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 55032: 2012	Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2012+ Cor. 1:2012 + Cor. 2:2012); German version EN 55032:2012	
EMC	DIN EN 55032: 2016	Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015); German version EN 55032:2015	Without FAR. Without "Home satellite receiving systems"
EMC	CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	Without IEC 61000-4-20 (TEM waveguides) Without IEC 61000-4-21 (Reverberation chamber) Without IEC 61000-4-22 (FAR)
EMC	EN 55035:2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	Without IEC 61000-4-20 (TEM waveguides) Without IEC 61000-4-21 (Reverberation chamber) Without IEC 61000-4-22 (FAR)
EMC	DIN EN 55035: 2018	Electromagnetic compatibility of multimedia equipment - Immunity requirements (CISPR 35:2016, modified); German version EN 55035:2017	Without IEC 61000-4-20 (TEM waveguides) Without IEC 61000-4-21 (Reverberation chamber) Without IEC 61000-4-22 (FAR)

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 55103-1: 2009+A1: 2012	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emissions	
EMC	DIN EN 55103-1: 2013	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emissions; German version EN 55103-1:2009 + A1:2012	
EMC	EN 55103-2: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 2: Immunity	
EMC	DIN EN 55103-2: 2010	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 2: Immunity; German version EN 55103-2:2009	
EMC	IEC 60146-1-1: 2009	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements	Only Annex A "Harmonics and interharmonics"
EMC	EN 60146-1-1: 2010	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements	Only Annex A "Harmonics and interharmonics"

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 60146-1-1:2011	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements (IEC 60146-1-1:2009); German version EN 60146-1-1:2010	Only Annex A "Harmonics and interharmonics"
EMC	IEC 60335-1: 2010 +A1:2013+A2:2016	Household and similar electrical appliances Safety - Part 1: General requirements	Only chapter 19.11.4
EMC	EN 60335-1: 2012 +A11:2014 +A12:2017	Household and similar electrical appliances Safety - Part 1: General requirements	Only chapter 19.11.4
EMC	IEC 61000-3-2: 2014 IEC 61000-3-2: 2018	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	EN 61000-3-2: 2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	DIN EN 61000-3-2:2015	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2014); German version EN 61000-3-2:2014	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61000-3-3: 2013 (Ed3)	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	EN 61000-3-3: 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	DIN EN 61000-3-3:2014	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 (IEC 61000-3-3:2013); German version EN 61000-3-3:2013	
EMC	IEC 61000-3-11: 2017	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	EN 61000-3-11: 2000 prEN EN 61000-3-11:2016	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	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 61000-3-11:2001	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 (IEC 61000-3-11:2000); German version EN 61000-3-11:2000	
EMC	DIN EN 61000-3-11:2017 Entwurf	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 (IEC 77A/929/CDV:2016); German version prEN 61000-3-11:2016	
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 systems with input current > 16 A and ≤ 75 A per phase	
EMC	EN 61000-3-12: 2011	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	
EMC	DIN EN 61000-3-12:2012	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase (IEC 61000-3-12:2011); German version EN 61000-3-12:2011	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61000-5-7: 2001	Electromagnetic compatibility (EMC) - Part 5-7: Installation and mitigation guidelines; Degrees of protection provided by enclosures against electromagnetic disturbances (EM-code)	
EMC	EN 61000-5-7: 2001	Electromagnetic compatibility (EMC) - Part 5-7: Installation and mitigation guidelines; Degrees of protection provided by enclosures against electromagnetic disturbances (EM-code)	
EMC	DIN EN 61000-5-7:2001	Electromagnetic compatibility (EMC) - Part 5-7: Installation and mitigation guidelines; Degrees of protection provided by enclosures against electromagnetic disturbances (EM-code) (IEC 61000-5-7:2001); German version EN 61000-5-7:2001	
EMC	IEC 61131-2: 2007	Programmable controllers - Part 2: Equipment requirements and tests	Only Sec 6.4, 8 and 9
EMC	EN 61131-2: 2007	Programmable controllers - Part 2: Equipment requirements and tests	Only Sec 6.4, 8 and 9
EMC	DIN EN 61131-2: 2008	Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007); German version EN 61131-2:2007	Only Sec 6.4, 8 and 9
EMC	IEC 61204-3: 2016	Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC)	
EMC	EN IEC 61204-3 :2018	Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC)	
EMC	DIN EN IEC 61204-3:2018	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC) (IEC 61204-3:2016); German version EN IEC 61204-3:2018	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61326-1: 2012	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	
EMC	EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	
EMC	DIN EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 61326-1:2012); German version EN 61326-1:2013	
EMC	IEC 61326-2-1: 2012	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1: Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	
EMC	EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1: Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 61326-2-1:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications (IEC 61326-2-1:2012); German version EN 61326-2-1:2013	
EMC	IEC 61326-2-2: 2012	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	
EMC	EN 61326-2-2: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	
EMC	DIN EN 61326-2-2:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems (IEC 61326-2-2:2012); German version EN 61326-2-2:2013	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	IEC 61326-2-3: 2012	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3: Particular requirements – Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
EMC	EN 61326-2-3: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3: Particular requirements – Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
EMC	DIN EN 61326-2-3:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning (IEC 61326-2-3:2012); German version EN 61326-2-3:2013	
EMC	IEC 61326-2-4: 2012	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-4: Particular requirements – Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61326-2-4: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-4: Particular requirements – Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9	
EMC	DIN EN 61326-2-4:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4: Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 (IEC 61326-2-4:2012); German version EN 61326-2-4:2013	
EMC	IEC 61326-2-5: 2012	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1	
EMC	EN 61326-2-5: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 61326-2-5:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1 (IEC 61326-2-5:2012); German version EN 61326-2-5:2013	
EMC	IEC 61496-1: 2012	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests	Only section 4.3.2
EMC	EN 61496-1: 2013	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests	Only section 4.3.2
EMC	DIN EN 61496-1: 2014	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests (IEC 61496-1:2012); German version EN 61496-1:2013	Only section 4.3.2
EMC	IEC 61547:2009	Equipment for general lighting purposes - EMC immunity requirements	
EMC	EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements	
EMC	DIN EN 61547: 2010	Equipment for general lighting purposes - EMC immunity requirements (IEC 61547:2009); German version EN 61547:2009	
EMC	IEC 61587-3: 2013	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 3: Electromagnetic shielding performance tests for cabinets, racks and subracks	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61587-3: 2013	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 3: Electromagnetic shielding performance tests for cabinets, racks and subracks	
EMC	DIN EN 61587-3: 2013	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 3: Electromagnetic shielding performance tests for cabinets and subracks (IEC 61587-3:2013); German version EN 61587-3:2013	
EMC	IEC 61850-3: 2014	Communication networks and systems for power utility automation – Part 3: General requirements	Only chapter 6.7 EMC
EMC	EN 61850-3: 2014	Communication networks and systems for power utility automation – Part 3: General requirements	Only chapter 6.7 EMC
EMC	DIN EN 61850-3: 2014	Communication networks and systems for power utility automation - Part 3: General requirements (IEC 61850-3:2013); German version EN 61850-3:2014	Only chapter 6.7 EMC
EMC	IEC 61851-1: 2010	Electric vehicle conductive charging system - Part 1: General requirements	Only chapter 11.12 EMC
EMC	EN 61851-1: 2011	Electric vehicle conductive charging system - Part 1: General requirements	Only chapter 11.12 EMC
EMC	DIN EN 61851-1: 2012	Electric vehicle conductive charging system - Part 1: General requirements (IEC 61851-1:2010); German version EN 61851-1:2011	Only chapter 11.12 EMC
EMC	IEC 61851-21: 2001	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	Only chapter 9 EMC

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 61851-21: 2002	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	Only chapter 9 EMC
EMC	DIN EN 61851-21:2002	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 (IEC 61851-21:2001); German version EN 61851-21:2002	Only chapter 9 EMC
EMC	IEC 61851-21-1: 2017	Electric vehicle conductive charging systems - Part 21-1: Electric vehicle onboard charger EMC requirements for conductive connection to an a.c./d.c. supply	
EMC	EN 61851-21-1 :2017 + AC:2017	Electric vehicle conductive charging systems - Part 21-1: Electric vehicle onboard charger EMC requirements for conductive connection to an a.c./d.c. supply	
EMC	DIN EN 61851-21-1:2018	Electric vehicle conductive charging system - Part 21-1: Electric vehicle on-board charger EMC requirements for conductive connection to an AC/DC supply (IEC 61851-21-1:2017); German version EN 61851-21-1:2017 + AC:2017	
EMC	IEC 61851-21-2: 2018	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	PREN 61851-21-2:2016	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
EMC	IEC 61851-22: 2001	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station / Applies in conjunction with IEC 61851-1 (2001-01)	Only chapter 11.3 EMC
EMC	EN 61851-22: 2002	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station / Applies in conjunction with IEC 61851-1 (2001-01)	Only chapter 11.3 EMC
EMC	DIN EN 61851-22:2002	Electrical equipment of electric road vehicles - Electric vehicles conductive charging system - Part 2-2: AC electric vehicle charging station (IEC 61851-22:2001); German version EN 61851-22:2002	Only chapter 11.3 EMC
EMC	IEC 62040-2: 2016	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	Max. current 3x 125 A
EMC	EN IEC 62040-2: 2018	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	Max. current 3x 125 A
EMC	DIN EN IEC 62040-2:2019	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-2:2016); German version EN IEC 62040-2:2018	Max. current 3x 125 A
EMC	IEC 62301:2011	Household electrical appliances - Measurement of standby power	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	ITU-T K.20:2018	Resistibility of telecommunication equipment installed in a telecommunication centre to overvoltages and overcurrents	Without pulse > 10 kA 8/20µs
EMC	ITU-T K.21:2018	Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents	Without pulse > 10 kA 8/20µs
EMC	ITU-T K.43:2009	Immunity requirements for telecommunication equipment	
EMC	ITU-T K.44:2018	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation	Without pulse > 10 kA 8/20µs
EMC	ITU-T K.45:2018	Resistibility of telecommunication equipment installed in the access and trunk networks to overvoltages and overcurrents	Without pulse > 10 kA 8/20µs
EMC	ITU-T K.48:2006	EMC requirements for each telecommunication network equipment - Product family Recommendation	
EMC	ITU-T K.54:2004	Conducted immunity test method and level at fundamental power frequencies	
EMC	VdS 2110:2017	VdS Guidelines for Alarm Systems - Protection against environmental influences - Requirements and test methods	Only chapter 5.1.6, EMC
EMC	VdS 2115:2015	VdS- Guidelines for break in alarm system – energy supply equipment - Requirements and test methods	Only chapter 16, EMC
EMC	VdS 2195 :2001	Guidelines for break in alarm system, energy supply equipment of class A, Requirements	Only chapter 5.5, EMC

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC in the TC-field (RED Art. 3.1b und Art. 3.2) *			
EMC (radio equipment)	ETSI EN 301 489-1 V1.9.2: 2011	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	
EMC (radio equipment)	ETSI EN 301 489-1 V2.1.1: 2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised 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 equipment)	ETSI EN 301 489-3 V2.1.1: 2019	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; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC (radio equipment)	ETSI EN 301 489-4 V3.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC (radio equipment)	ETSI EN 301 489-6 V2.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC (radio equipment)	ETSI EN 301 489-7 V1.3.1: 2005	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) 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 equipment)	ETSI EN 301 489-17 V3.1.1: 2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC (radio equipment)	ETSI EN 301 489-19 V2.1.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC (radio equipment)	ETSI EN 301 489-24 V1.5.1: 2019	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	
EMC (radio equipment)	ETSI EN 301 489-25 V2.3.2: 2005	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment	
EMC (radio equipment)	ETSI EN 301 489-34 V1.4.1: 2013	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	
EMC (radio equipment)	ETSI EN 301 489-34 V2.1.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones; Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC (radio equipment)	ETSI EN 301 489-35 V2.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	The use of a simulated man is necessary (must be provided by customer)
EMC (radio equipment)	ETSI EN 301 489-50 V2.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC (radio equipment)	ETSI EN 301 489-51 V2.1.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC (radio equipment)	ETSI EN 301 489-52 Draft V1.1.0:2016	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC in the TC-field (RED Art. Art. 3.2)*			
TC + EMC	ETSI EN 300 220-1 V3.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
TC + EMC	ETSI EN 300 220-2 V3.2.1: 2018	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment	
TC + EMC	ETSI EN 300 220-2 V3.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
TC + EMC	ETSI EN 300 220-3-1 V2.1.1: 2016	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)	
TC + EMC	ETSI EN 300 220-3-2 V1.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: Harmonised 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	
TC + EMC	ETSI EN 300 220-4 V1.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Metering devices operating in designated band 169,400 MHz to 169,475 MHz	
TC + EMC	ETSI EN 300 328 V2.1.1:2016	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
TK + EMC	ETSI EN 300 330 V2.1.1:2017	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; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK + EMC	ETSI EN 300 440 V2.2.1:2018	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum	fmax = 40 GHz
TK + EMC	ETSI EN 300 440 V2.1.1:2017	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TK + EMC	ETSI EN 301 406 V2.2.2:2016	Digital Enhanced Cordless Telecommunications (DECT); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	Only chapter 5.3.6.5.1 for radiated emissions
TK + EMC	ETSI EN 301 502 V12.5.2:2017	Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Only chapter 5.3.16 for radiated spurious emissions

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
TK + EMC	ETSI EN 301 511 V12.5.1:2017	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Only chapter 5.3.16 to 5.3.19 for radiated spurious emissions
TK + EMC	ETSI EN 301 893 V2.1.1:2017	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Without clauses 5.4.8 and 5.4.9
TK + EMC	ETSI EN 301 908-1 V11.1.1: 2016	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	Only chapter 5.3.1 and 5.3.2 for radiated emission
TK + EMC	ETSI EN 302 208 V3.1.1:2016	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TK + EMC	ETSI EN 303 413 V1.1.1:2017	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Only chapter 5.5 for receiver spurious emission

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
TK + EMC	ETSI EN 303 417 V1.1.1:2017	Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
EMF/EMVU*			
EMC (EMF)	BGV B 11 DGUV VORSCHRIFT 15: 2001	BG-Regulation - Electromagnetic fields	H-Feld: 0 Hz bis 1 GHz E-Feld: 5 Hz bis 50 GHz Messungen der Feldstärke- und Flussdichtewerte nach EN 50413
EMC (EMF)	EN 50413:2008 + A1:2013	Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)	Only chapter 5.2 "EM field measurement" H-Field: 0 Hz to 1 GHz E-Field: 5 Hz to 50 GHz
EMC (EMF)	DIN EN 50413/ A1:2014	Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz); German version EN 50413:2008/A1:2013	Kapitel 5.2 "Messung des elektrischen Feldes" H-Feld: 0 Hz bis 1 GHz E-Feld: 5 Hz bis 50 GHz

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC (EMF)	EN 62311:2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) (IEC 62311:2007, modified)	Only calculation acc. Annex A and measurement acc. Annex F
EMC (EMF)	DIN EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 800 GHz) (IEC 62311:2007, modified); German version EN 62311:2008	Nur Berechnungsverfahren nach Anhang A und Messung nach Anhang F
EMC (EMF)	EN 62369-1: 2009	Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by de-vices used for electronic article surveillance, radio frequency identification and similar systems (IEC 62369-1:2008) / Endorsement notice)	Without chapter 4.3, 4.4, 4.5, 4.6 H-Field: 0 Hz to 1 GHz E-Field: 5 Hz to 50 GHz
EMC (EMF)	DIN EN 62369-1:2010	Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by devices used for electronic article surveillance, radio frequency identification and similar systems (IEC 62369-1:2008); German version EN 62369-1:2009	Without chapter 4.3, 4.4, 4.5, 4.6 H-Feld: 0 Hz bis 1 GHz E-Feld: 5 Hz bis 50 GHz

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC (EMF)	EN 62479:2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) (IEC 62479:2010, modified)	
EMC (EMF)	DIN EN 62479: 2011	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) (IEC 62479:2010, modified); German version EN 62479:2010	
Railway *			
EMC	EN 50121-3-2: 2015	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock – Apparatus	
EMC	DIN EN 50121-3-2:2016	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus; German version EN 50121-3-2:2015	
EMC	EN 50121-4: 2015	Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus	
EMC	DIN EN 50121-4: 2017	Railway applications - electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus; German version EN 50121-4:2016	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 50121-5: 2017	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus	
EMC	DIN EN 50121-5: 2017	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus; German version EN 50121-5:2017	
EMC	EN 50155:2017	Railway applications - Electronic equipment used on rolling stock	Only chapter 13.4.3 and 13.4.8
EMC	DIN EN 50155 :2018	Railway applications - Rolling stock - Electronic equipment; German version EN 50155:2017	Only chapter 13.4.3 and 13.4.8
EMC	IEC 62236-3-2 :2018	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock – Apparatus	
Motor vehicles (automotive)*			
EMC	EN 12895:2015	Industrial trucks - Electromagnetic compatibility.	
EMC	DIN EN 12895: 2015	Industrial trucks - Electromagnetic compatibility; German version EN 12895:2015	
EMC	EN 13309:2010	Construction machinery - Electromagnetic compatibility of machines with internal power supply	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 13309: 2010	Construction machinery - Electromagnetic compatibility of machines with internal power supply; German version EN 13309:2010	
EMC	EN 15194:2017	Cycles - Electrically power assisted cycles - EPAC Bicycles	Only chapter 4.2.15 EMC; roller bench will be rent
EMC	DIN EN 15194: 2018	Cycles - Electrically power assisted cycles - EPAC Bicycles; German version EN 15194:2017	Only chapter 4.2.15 EMC; roller bench will be rent
EMC	ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions	
EMC	EN ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN ISO 13766-1 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions (ISO 13766-1:2018); German version EN ISO 13766-1:2018	
EMC	ISO 13766-2: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety	
EMC	EN ISO 13766-2: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety	
EMC	DIN EN ISO 13766-2:2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety (ISO 13766-2:2018); German version EN ISO 13766-2:2018	
EMC	ISO 14982:1998	Agricultural and forestry machines - Electromagnetic compatibility - Test methods and acceptance criteria	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN ISO 14982: 2009	Agricultural and forestry machines - Electromagnetic compatibility - Test methods and acceptance criteria	
EMC	DIN EN ISO 14982:2009	Agricultural and forestry machines - Electromagnetic compatibility - Test methods and acceptance criteria (ISO 14982:1998); German version EN ISO 14982:2009	
EMC	CISPR 12:2007 + A1:2009	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	No boats
EMC	EN 55012:2007 +A1:2009	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	No boats
EMC	DIN EN 55012: 2010	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers (IEC/CISPR 12:2007 + A1:2009); German version EN 55012:2007 + A1:2009	No boats
EMC	EN 50498:2010	Electromagnetic Compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	DIN EN 50498: 2011	Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles; German version EN 50498:2010	
EMC	ECE R 10 Rev. 3, 4, 5 2005/2012/ 2014	Regulation No 10 of the Economic Commission for Europe of the United Nations (UN/ECE) – Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility	
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/DTS 7637-4: 2019-01	Road Vehicles – Electrical disturbances by conduction and coupling – Part 4: Electrical transient conduction along shielded high voltage supply lines only	
EMC	ISO 10605:2008 + Corr 1:2010 + AMD1:2014	Road vehicles — Test methods for electrical disturbances from electrostatic discharge	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	ISO 11451-2: 2015	Road vehicles-electrical disturbances by narrow- band radiated electromagnetic energy - vehicle test methods, Part 2: Off-vehicle radiation source	Testlevel II below 40 MHz Testlevel IV above 40 MHz
EMC	ISO 11451-4: 2013	Road vehicles-electrical disturbances by narrow- band radiated electromagnetic energy - vehicle test methods, Part 4: Bulk current injection (BCI)	
EMC	ISO 11452-2: 2004	Road vehicles-electrical disturbances by narrow-band radiated electromagnetic energy-component test methods, Part 2: Absorber lined chamber	
EMC	ISO 11452-3 :2016	Road vehicles-electrical disturbances by narrow-band radiated electromagnetic energy-component test methods, Part 3: Transverse electromagnetic mode (TEM) cell	
EMC	ISO 11452-4: 2011 ISO/DIS 11452-4 :2019-02	Road vehicles-electrical disturbances by narrow-band radiated electromagnetic energy-component test methods, Part 4: Bulk current injection (BCI)	
EMC	ISO 11452-5: 2002	Road vehicles - Component test methods for electrical disturbances by narrowband radiated electromagnetic energy - Part 5: Stripline	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
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 11452-9: 2012	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 9: Portable transmitters	
EMC	ISO 11452-10: 2009	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 10: Immunity to conducted disturbance in the extended audio frequency range	
EMC	ISO 16750-2: 2012	Road vehicles — Environmental conditions and testing for electrical and electronic equipment Part 2: Electrical loads	
Maritime Equipment*			
EMC	IEC 60533: 2015	Electrical and electronic installations in ships - Electromagnetic compatibility	
EMC	IEC 60945:2002	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results	Only EMC (Chapter. 7, 9, 10, 12.2 and 12.3)

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	EN 60945:2002	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results (IEC 60945:2002); German version EN 60945:2002	Only EMC (Chaper. 7, 9, 10, 12.2 and 12.3)
EMC	DIN EN 60945: 2003	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results (IEC 60945:2002); German version EN 60945:2002	Only EMC (chapter 7, 9, 10, 12.2 and 12.3)
Aviation (Airborne Equipment)*			
EMC	RTCA/DO-160D Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160D Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	No AC Equipment
EMC	RTCA/DO-160D Section 17	Environmental Conditions and Test Procedures for Airborne Equipment – Voltage Spike	
EMC	RTCA/DO-160D Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160D Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without Section 19.3.4

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	RTCA/DO-160D Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	
EMC	RTCA/DO-160D Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	
EMC	RTCA/DO-160D Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	
EMC	RTCA/DO-160E Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160E Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	No AC Equipment
EMC	RTCA/DO-160E Section 17	Environmental Conditions and Test Procedures for Airborne Equipment – Voltage Spike	
EMC	RTCA/DO-160E Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160E Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without Section 19.3.4
EMC	RTCA/DO-160E Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	
EMC	RTCA/DO-160E Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	RTCA/DO-160E Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	
EMC	RTCA/DO-160F Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160F Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	Without 16.5, 16.7
EMC	RTCA/DO-160F Section 17	Environmental Conditions and Test Procedures for Airborne Equipment – Voltage Spike	
EMC	RTCA/DO-160F Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160F Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without Section 19.3.4
EMC	RTCA/DO-160F Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	
EMC	RTCA/DO-160F Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	
EMC	RTCA/DO-160F Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	RTCA/DO-160G Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160G Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	Without 16.5, 16.7
EMC	RTCA/DO-160G Section 17	Environmental Conditions and Test Procedures for Airborne Equipment – Voltage Spike	
EMC	RTCA/DO-160G Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160G Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without 19.3.5
EMC	RTCA/DO-160G Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	
EMC	RTCA/DO-160G Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	
EMC	RTCA/DO-160G Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Military Equipment *			
EMC	MIL-STD-461 Issues D	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105
EMC	MIL-STD-461 E	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105
EMC	MIL-STD-461 F	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, CS106, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105
EMC	MIL-STD-461 G	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, CS106, CS117, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	VG 95373-10: 2008	Electromagnetic Compatibility (EMC) - Electromagnetic Compatibility of Equipment - Part 10: Test procedure for conducted emissions (current)	
EMC	VG 95373-12: 2008	Electromagnetic Compatibility (EMC) - Electromagnetic Compatibility of Equipment - Part 12: Test procedures for radiated emissions	
EMC	VG 95373-13: 2008	Electromagnetic Compatibility (EMC) - Electromagnetic Compatibility of Equipment - Part 13: Test procedures radiated susceptibility	Test range up to 18 GHz. GWK 2 from 200 MHz
EMC	VG 95373-14: 2008	Electromagnetic Compatibility (EMC) – Electromagnetic Compatibility of Equipment – Part 14: Test procedures for conducted susceptibility	
EMC	VG 95373 Part 15:2005	Electromagnetic compatibility - Electromagnetic compatibility of equipment - Part 15: Test methods for coupling and shielding	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Procedures of international standardization organizations *			
EMC	ANSI C 63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	Measurements in GTEM Cell excluded; without chapter 12.3, 12.4
TK	ANSI C 63.10-2013	American National Standard for Testing of Unlicensed Wireless Devices Stand alone or in combination with:	Highest measureable Frequency Range is limited to $f_{max} = 40$ GHz; Measurements in GTEM Cell excluded
TK	ANSI C 63.17-2013	American National Standard - Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices	Highest measureable Frequency Range is limited to $f_{max} = 40$ GHz
TK	FCC MP-5:1986	FCC Methods of Measurements of Radio Noise Emissions From Industrial, Scientific, and Medical Equipment; 1986	
	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations	
	47 CFR Part 15	Radio Frequency Devices	
	47 CFR Part 18	Industrial, Scientific, and Medical Equipment	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
TK	ANSI/TIA-603-D: 2010	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	Highest measureable Frequency Range is limited to $f_{max} = 40$ GHz
TK	TIA-102.CAAA-D :2013	Project 25 Digital C4FM/CQPSK Transceiver Measurement Methods	Highest measureable Frequency Range is limited to $f_{max} = 40$ GHz
TK	ANSI C63.26 :2015	IEEE/ANSI Standard For Compliance Testing Of Transmitters Used In Licensed Radio Services	Highest measureable Frequency Range is limited to $f_{max} = 40$ GHz
TK	RSS-GEN:2019	General Requirements for Compliance of Interference-Causing Equipment	Highest measureable Frequency Range is limited to $f_{max} = 40$ GHz
TK	RSS-112:2008	Land Mobile and Fixed Equipment Operating in the Band 1670–1675 MHz	Special auxiliary equipment to be provided externally
TK	RSS-119:2015	Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41- 960 MHz	Special auxiliary equipment to be provided externally
TK	RSS-130:2019	Equipment Operating in the Frequency Bands 617-652 MHz, 663- 698 MHz, 698- 756 MHz and 777-787 MHz	Special auxiliary equipment to be provided externally
TK	RSS-132:2013	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869- 894 MHz	Special auxiliary equipment to be provided externally
TK	RSS-134:2016	900 MHz Narrowband Personal Communications Services	Special auxiliary equipment to be provided externally

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
TK	RSS-137:2009	Location and Monitoring Service in the Band 902-928 MHz	Special auxiliary equipment to be provided externally
TK	RSS-139:2015	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710- 1780 MHz and 2110-2180 MHz	Special auxiliary equipment to be provided externally
TK	RSS-142:2013	Narrowband Multipoint Communication Systems in the Bands 1429.5-1432 MHz	Special auxiliary equipment to be provided externally
TK	RSS-194:2007	Fixed Wireless Access Equipment Operating in the Band 953–960 MHz	Special auxiliary equipment to be provided externally
TK	RSS-199:2016	Broadband Radio Service (BRS) Equipment Operating in the Band 2500– 2690 MHz	Special auxiliary equipment to be provided externally
TK	RSS-213:2015	2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices	Special auxiliary equipment to be provided externally
TK	RSS-216:2016	Wireless Power Transfer Devices	Special auxiliary equipment to be provided externally
TK	RSS-220:2018	Devices Using Ultra-Wideband (UWB) Technology	Special auxiliary equipment to be provided externally
TK	RSS-222:2015	White Space Devices (WSDs)	Special auxiliary equipment to be provided externally
TK	RSS-310	Licence-Exempt Radio Apparatus: Category II Equipment	Special auxiliary equipment to be provided externally

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Product Safety	Safety: Audio/Video, Information and Communication Technology Equipment		
ITAV	DIN EN 62368-1: 2016 + CORRIGENDUM 1:2016-11 + CORRIGENDUM 2:2017-04 + CORRIGENDUM 3:2017-07	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified + Cor.:2015); German version EN 62368-1:2014 + AC:2015, Corrigendum to DIN EN 62368-1 (VDE 0868-1):2016-05; German version EN 62368-1:2014/AC:2017-03	
ITAV	EN 62368-1:2014 EN 62368-1/AC: 2015	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified + Cor.:2015); German version EN 62368-1:2014 + AC:2015	
ITAV	IEC 62368-1:2018	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
ITAV	IEC 62368-1 ed 2.0: 2014 + CORRIGENDUM 1: 2015 CORRIGENDUM 2: 2015	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
ITAV	IEC 62368-1: 2010 + CORRIGENDUM 1: 2010	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
ITAV	UL 62368-1: 2014 ANSI/UL 62368-1 :2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
ITAV	CAN/CSA-C22.2 NO. 62368-1-14:2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
ITAV	IEC 62368-3:2017	Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports	
ITAV	DIN EN 62368-3	Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports	
OFF	DIN EN 60950-1 (2014-08) DIN EN 60950-1 (2011-01) VDE 0805-1 + BEIBLATT 1(2007-05) + / A12(2011-08) + / A12 BERICHTIGUNG 1(2012-09)	Information technology equipment - Safety - Part 1: General requirements (IEC 60950-1:2005, modified + Cor.:2006 + A1:2009, modified + A1:2009/Cor.:2012 + A2:2013, modified); German version EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013	Except Annex U: Insulating wires for use without interleaved insulation, Annex Y: Ultraviolet light conditioning test and Annex AA: Mandrel test.
OFF	EN 60950-1 (2006-04) + /A1(2010-03) + /A11(2009-03) + / A12(2011-02) + / AC(2011-10) + /A2(2013-08)	Information Technology Equipment - Safety - Part 1: General requirements	Except Annex U: Insulating wires for use without interleaved insulation, Annex Y: Ultraviolet light conditioning test and Annex AA: Mandrel test.

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
OFF	IEC 60950-1 EDITION 2.2:2013 IEC 60950-1 EDITION 2.1:2012 IEC 60950-1:2005-+ CORRIGENDUM 1:2006 + + AMD 1:2009 + AMD 1 CORRIGENDUM 1:2012 +AMD 2:2013 + CORRIGENDUM 2:2013	Information Technology Equipment - Safety - Part 1: General requirements	Except Annex U: Insulating wires for use without interleaved insulation, Annex Y: Ultraviolet light conditioning test and Annex AA: Mandrel test.
OFF	AS/NZS 60950.1	Information Technology Equipment - Safety - Part 1: General requirements	Except Annex U: Insulating wires for use without interleaved insulation, Annex Y: Ultraviolet light conditioning test and Annex AA: Mandrel test.
OFF	CAN/CSA-C22.2 No. 60950-1:2007 CAN/CSA-C22.2 No. 60950-1A AMD 1 (2011-01) CAN/CSA-C22.2 No. 60950-1B AMD 2 (2014-01)	Information Technology Equipment - Safety - Part 1: General requirements	Except Annex U: Insulating wires for use without interleaved insulation, Annex Y: Ultraviolet light conditioning test and Annex AA: Mandrel test.
OFF	ANSI/UL 60950-1: 2014 + ANSI/UL 60950-1 2011 + A1:2011 UL 60950-1:2007	Standard for Safety for Information Technology Equipment - Safety - Part 1: General Requirements	Except Annex U: Insulating wires for use without interleaved insulation, Annex Y: Ultraviolet light conditioning test and Annex AA: Mandrel test.

Valid from: 11.11.2020

Date of issue: 18.12.2020

Page 71 of 115

- Translation -

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
OFF	DIN EN 60950-21: 2003	Information Technology Equipment - Safety - Part 21: Remote power feeding	
OFF	EN 60950-21 : 2003	Information Technology Equipment - Safety - Part 21: Remote power feeding	
OFF	IEC 60950-21 : 2002 + CORRIGENDUM 1: 2003	Information Technology Equipment - Safety - Part 21: Remote power feeding	
OFF	ANSI/UL 60950-21: 2007 UL 60950-21:2003	Information Technology Equipment - Safety - Part 21: Remote power feeding	
OFF	CAN/CSA-C22.2 NO. 60950-21-03: 2003	Information Technology Equipment - Safety - Part 21: Remote power feeding	
OFF	DIN EN 60950-22: 2006 + BERICHTIGUNG 1: 2009 + A11: 2009 + A11 BERICHTIGUNG 1: 2011 BERICHTIGUNG 1: 2011 DIN EN 60950-22: 2017	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors	
OFF	EN 60950-22 : 2006 + A11:2008 + AC: 2008 + A11/AC: 2009 EN 60950-22:2017	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors	
OFF	IEC 60950-22: 2016 IEC 60950-22: 2005	Information technology equipment - Safety - Part 22: Equipment installed outdoors (IEC 60950-22:2005, modified); German version EN 60950-22:2006	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
OFF	ANSI/UL 60950-22: 2011 ANSI/UL 60950-22:2017 UL 60950-22:2017	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors	
OFF	CAN/CSA-C22.2 NO. 60950-22:2017	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors	
TRON	EN 60065:2002 + AC: 2007 + A1: 2006 + A2 2010 + A11:2008 + A12 2011 EN 60065: 2014 + AC: 2016 + A11: 2017 + AC: 2017	Audio, video and similar electronic apparatus - Safety requirements	Except Annex H: Insulated winding wires for use without interleaved insulation.
TRON	IEC 60065: 2014 + CORRIGENDUM 1: 2015 +CORRIGENDUM 2: 2016 +CORRIGENDUM 3:2018	Audio, video and similar electronic apparatus - Safety requirements	Except Annex H: Insulated winding wires for use without interleaved insulation.
TRON	ANSI/UL 60065: 2013 ANSI/UL 60065: 2015 UL 60065: 2015	Audio, video and similar electronic apparatus - Safety requirements	Except Annex H: Insulated winding wires for use without interleaved insulation.
TRON	CAN/CSA-C22.2 NO. 60065: 2016	Audio, video and similar electronic apparatus - Safety requirements	Except Annex H: Insulated winding wires for use without interleaved insulation.

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
	DIN EN 41003: 2009 + BEIBLATT 1: 2006	Particular safety requirements for equipment to be connected to telecommunication networks and/or a cable distribution system	No preparation with ultraviolet light, no tests of material properties after UV-irradiation
	IEC 62911: 2016	Audio, video and information technology equipment - Routine electrical safety testing in production	50514 is replaced by 62911
	DIN EN 60215: 1993 + A1: 1995+ /A2: 1995	Safety requirements for radio transmitting equipment	
	EN 60215:1989 + A1:1992 + A2: 1994	Safety requirements for radio transmitting equipment	
	IEC 60215:1987 + AMD 1:1990 + AMD 2:1993 IEC 60215:2016	Safety requirements for radio transmitting equipment	
Product Safety	Safety: Safety requirements for electrical equipment for measurement, control and laboratory use		
MEAS	DIN EN 61010-1: 2011	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (IEC 61010-1:2010 + Cor. :2011); German version EN 61010-1:2010	Except section 12.3 Ultraviolet (UV) Radiation and 12.5.2: (can be done at SGS France)
MEAS	EN 61010-1: 2010	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (IEC 61010-1:2010 + Cor. :2011); German version EN 61010-1:2010	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	IEC 61010-1 : 2010 + CORRIGENDUM 1 : 2011 + CORRIGENDUM 2: 2013 INTERPRETATION SHEET 1: 2013 + AMD 1:2016 IEC 61010-1 Ed. 3.1: 2017 IEC 61010-1: 2001 + CORRIGENDUM 1: 2002 + CORRIGENDUM 2: 2003	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	
MEAS	ANSI/UL 61010-1: 2015 ANSI/UL 61010-1: 2016 UL 61010-1: 2012	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	
MEAS	CAN/CSA C22.2 NO. 61010-1-12: 2012	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	
MEAS	DIN EN 61010-2-010: 2015 DIN EN 61010-2-010: 2004	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	
MEAS	EN 61010-2-010: 2014 EN 61010-2-010: 2003	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	IEC 61010-2-010: 2014 IEC 61010-2-010: 2003	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	
MEAS	ANSI/UL 61010-2-010: 2015 UL 61010-2-010: 2015	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	
MEAS	CAN/CSA-C22.2 NO. 61010-2-010: 2015	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	
MEAS	DIN EN IEC 61010-2-011:2019-01 – Entwurf DIN EN 61010-2-011:2017-12	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	
MEAS	prEN IEC 61010-2-011:2018 EN 61010-2-011:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	
MEAS	IEC 66/676/CDV:2018 IEC 61010-2-011:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	ANSI/UL 61010-2-011:2017-01-31	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	
MEAS	CAN/CSA-C22.2 No. 61010-2-011:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	
MEAS	DIN EN 61010-2-012:2018-10 (Entwurf) DIN EN 61010-2-012:2017-09	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	
MEAS	prEN 61010-2-012:2018 EN 61010-2-012:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	
MEAS	IEC 66/656/CDV:2018 IEC 61010-2-012:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	
MEAS	UL 61010-2-012:2017-02-20	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	CAN/CSA-C22.2 No. 61010-2-012:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	
MEAS	DIN EN 61010-2-020: 2017-12	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	
MEAS	EN 61010-2-020:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	
MEAS	IEC 61010-2-020:2016 IEC 61010-2-020:2006	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	
MEAS	ANSI/ UL 61010-2-020:2016-12-15	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	
MEAS	CAN/CSA-C22.2 No. 61010-2-020:2017-05-01	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	DIN EN 61010-2-030: 2011	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
MEAS	EN 61010-2-030: 2010	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
MEAS	IEC 61010-2-030: 2010 + CORRIGENDUM 1: 2011 IEC 61010-2-030: 2017	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
MEAS	ANSI/UL 61010-2-030: 2012 UL 61010-2-030: 2012	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
MEAS	CAN/CSA-C22.2 NO. 61010-2-030	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
MEAS	DIN EN 61010-031: 2016 VDE 0411-031 + BERICHTIGUNG 1: 2017	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	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	EN 61010-031: 2015	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	
MEAS	IEC 61010-031: 2015 IEC 61010-031: 2002 + AMD 1: 2008	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	
MEAS	ANSI/UL 61010-031: 2010 UL 61010-031: 2017	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	
MEAS	CAN/CSA-C22.2 NO. 61010-031: 2010	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	
MEAS	DIN EN 61010-2-032: 2013 VDE 0411-2-032	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	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	EN 61010-2-032: 2012	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	
MEAS	IEC 61010-2-032: 2012	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	
MEAS	ANSI/UL 61010-2-032: 2014	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	
MEAS	CAN/CSA-C22.2 NO. 61010-2-032: 2014	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	
MEAS	DIN EN 61010-2-033 VDE 0411-2-033: 2012	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	EN 61010-2-033: 2012	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	
MEAS	IEC 61010-2-033: 2012	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	
MEAS	ANSI/UL 61010-2-033: 2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	
MEAS	CAN/CSA-C22.2 NO. 61010-2-033: 2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	IEC 61010-2-034:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-034: Particular requirements for insulation resistance and electric strength test and measurement equipment (IEC 66/536/CD:2014)	
MEAS	DIN EN 61010-2-040:2006 DIN EN 61010-2-040:2016	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	
MEAS	EN 61010-2-040: 2015 EN 61010-2-040: 2005	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	
MEAS	IEC 61010-2-040: 2015	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	
MEAS	ANSI/UL 61010-2-040: 2016 UL 61010-2-040: 2016	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	CAN/CSA-C22.2 NO. 61010-2-040-07: 2007 CAN/CSA-C22.2 NO. 61010-2-040: 2016	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	
MEAS	IEC 61010-2-045: 2000	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-045: Particular requirements for washer disinfectors used in medical, pharmaceutical, veterinary and laboratory fields	
MEAS	DIN EN 61010-2-051: 2016	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring (IEC 61010-2-051:2015); German version EN 61010-2-051:2015	
MEAS	EN 61010-2-051:2015	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring (IEC 61010-2-051:2015); German version EN 61010-2-051:2015	
MEAS	ANSI/UL 61010-2-051: 2015	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	CAN/CSA-C22.2 NO. 61010-2-051:2015	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-051: Particular requirements for laboratory equipment for mixing and stirring	
MEAS	IEC 61010-2-051:2015	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring	
MEAS	DIN EN 61010-2-061:2018-03 (Entwurf) DIN EN 61010-2-061:2016-02	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	
MEAS	prEN 61010-2-061: 2017 EN 61010-2-061: 2015	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	
MEAS	IEC 66/643/CDV:2017 IEC 61010-2-061:2015 IEC 61010-2-061:2003	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	ANSI/ UL 61010-2-061: 2015-07-31	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	
MEAS	CAN/CSA-C22.2 No. 61010-2-061:2015-11-01	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	
MEAS	DIN EN 61010-2-081:2004 DIN EN 61010-2-081: 2015	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	No testing of biological contamination no measurement of ultrasonic pressure
MEAS	EN 61010-2-081 :2002 + A1: 2003 EN 61010-2-081: 2015	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	No testing of biological contamination no measurement of ultrasonic pressure
MEAS	IEC 61010-2-081: 2015 IEC 61010-2-081: 2001 + AMD 1: 2013 IEC 61010-2-081:2019	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	No testing of biological contamination no measurement of ultrasonic pressure

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	ANSI/UL 61010-2-081: 2015 UL 61010-2-081: 2015	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	No testing of biological contamination no measurement of ultrasonic pressure
MEAS	CAN/CSA-C22.2 NO. 61010-2-081: 2015	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	No testing of biological contamination no measurement of ultrasonic pressure
MEAS	DIN EN 61010-2-091: 2013 VDE 0411-2-091 + BERICHTIGUNG 1: 2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	
MEAS	EN 61010-2-091: 2012+ AC: 2013	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	
MEAS	IEC 61010-2-091: 2012	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	
MEAS	ANSI/UL 61010-2-091: 2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	CAN/CSA-C22.2 NO. 61010-2-091: 2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	
MEAS	DIN EN IEC 61010-2-120:2019-02	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 2-120. Particular safety requirements for machinery aspects of equipment	
MEAS	EN IEC 61010-2-120:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 2-120. Particular safety requirements for machinery aspects of equipment	
MEAS	IEC 61010-2-120:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 2-120. Particular safety requirements for machinery aspects of equipment	
MEAS	DIN EN 61010-2-130:2018-07 Withdrawn	Safety requirements for electrical equipment for measurement, control, and laboratory use. Particular requirements for equipment intended to be used in educational establishments by children. Particular requirements for equipment intended to be used in educational establishments by children	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	IEC 66/645/CD:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use. Particular requirements for equipment intended to be used in educational establishments by children. Particular requirements for equipment intended to be used in educational establishments by children	
MEAS	DIN EN 61010-2-201:2014 VDE 0411-2-201	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	
MEAS	EN 61010-2-201: 2013 + AC 2013	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	
MEAS	IEC 61010-2-201: 2017 IEC 61010-2-201: 2013	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	
MEAS	ANSI/UL 61010-2-201: 2017 UL 61010-2-201: 2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	
MEAS	CAN/CSA-IEC 61010-2-201: 2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MEAS	IEC 61010-2-202:2016 Withdrawn	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators	
MEAS	EN 61010-2-202:2017	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators (IEC 61010-2-202:2016); German version EN 61010-2-202:2017	
Product Safety	Safety of Laser Products		
MISC	DIN EN 60825-1:2008 + BERICHTIGUNG 1: 2008 + BERICHTIGUNG 2: 2009 + BEIBLATT 1: 2008 + BEIBLATT 2: 2012 + BEIBLATT 3: 2012 DIN EN 60825-1: 2015	Safety of laser products - Part 1: Equipment classification and requirements (IEC 60825-1:2014); German version EN 60825-1:2014	
MISC	EN 60825-1: 2007 + A1:2002 + A2:2001 + A2/AC:2004 EN 60825-1: 2014	Safety of laser products - Part 1: Equipment classification and requirements	
MISC	IEC 60825-1: 2007 + CORRIGENDUM 1: 2008 + INTERPRETATION SHEET 1: 2009 + INTERPRETATION SHEET 2: 2011 IEC 60825-1: 2014	Safety of laser products - Part 1: Equipment classification and requirements	
MISC	CAN/CSA-E60825-1: 2015	Safety of laser products - Part 1: Equipment classification and requirements	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
MISC	DIN EN 60825-2: 2011 + BEIBLATT 1: 2008	Safety of laser products - Part 1: Equipment classification and requirements	
MISC	EN 60825-2 :2004 + A1: 2007 + A2: 2010	Safety of laser products - Part 1: Equipment classification and requirements	
MISC	IEC 60825-2: 2005 + AM1: 2006 + INTERPRETATION SHEET 1:2008 + AM2: 2010 IEC 60825-2 EDITION 3.1: 2007 IEC 60825-2 EDITION 3.2: 2010	Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS) (IEC 60825-2:2004 + A1:2006 + A2:2010);	
Product Safety	Safety: Fire Hazard Testing		
---	DIN EN 60695-2-10: 2014 DIN EN IEC 60695-2-10:2019-04; VDE 0471-2-10:2019-04 - Entwurf	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure (IEC 60695-2-10:2013); German version EN 60695-2-10:2013	
---	EN 60695-2-10: 2013	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	
---	IEC 60695-2-10: 2013	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
---	DIN EN 60695-2-11: 2014	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	
---	EN 60695-2-11: 2014	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	
---	IEC 60695-2-11 : 2014	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	
---	DIN EN 60695-10-2: 2016	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method (IEC 60695-10-2:2014); German version EN 60695-10-2:2014	
---	EN 60695-10-2: 2014	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test	
---	IEC 60695- 10-2: 2014	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test	
---	DIN EN 60695-11-3: 2014	Fire hazard testing - Part 11-3: Test flames - 500 W flames - Apparatus and confirmational test methods (IEC 60695-11-3:2012); German version EN 60695-11-3:2012	
---	EN 60695-11-3: 2012	Fire hazard testing - Test flames - 500 W flames - Apparatus and confirmational test methods	
---	IEC 60695-11-3: 2012	Fire hazard testing - Test flames - 500 W flames - Apparatus and confirmational test methods	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
---	DIN EN 60695-11-5: 2017	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	
---	EN 60695-11-5: 2005	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	
---	IEC 60695-11-5: 2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	
---	DIN EN 60695-11-10:2014 BERICHTIGUNG 1: 2015	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	
---	EN 60695-11-10: 2013	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	
---	IEC 60695-11-10: 2013 + CORRIGENDUM 1: 2014 IEC 60695-11-10: 1999+ AMD 1: 2003	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	
---	DIN EN 60695-11-20: 2016	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods	
---	EN 60695-11-20: 2015+ AC: 2016	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
---	IEC 60695-11-20: 2015 + CORRIGENDUM 1: 2016 IEC 60695-11-20: 1999 + AMD 1: 2003 + CORRIGENDUM 1: 2000	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods	
---	DIN EN 60695-2-12: 2015	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	
---	EN 60695-2-12: 2010 +A1: 2014	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	
---	IEC 60695-2-12: 2010 + AMD 1: 2014 IEC 60695-2-12 EDITION 2.1: 2014	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	
---	DIN EN 60695-2-13: 2015 DIN EN 60695-2-13: 2011	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	
---	EN 60695-2-13: 2010 + A1: 2014	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	
---	IEC 60695-2-13: 2010 + CORRIGENDUM 1: 2012 + AM 1: 2014 IEC 60695-2-13 EDITION 2.1: 2014	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	
---	UL 94: 2013 ANSI/UL 94: 2013 ANSI/UL 94: 2014 ANSI/UL 94: 2015 ANSI/UL 94: 2016 ANSI/UL 94: 2018	Tests for Flammability of Plastic Materials for Parts in Devices and Applications	

Valid from: 11.11.2020

Date of issue: 18.12.2020

Page 94 of 115

- Translation -

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
---	ANSI/UL 94A(2015-01)	Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances / revision of ANSI/UL 94-2015	
---	ANSI/UL 94B: 2015	Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances / revision of ANSI/UL 94b-2013	
---	UL 1581: 2001 ANSI/UL 1581: 2013 ANSI/UL 1581: 2015 ANSI/UL 1581: 2016 ANSI/UL 1581: 2017	Reference standard for electrical wires, cables, and flexible cords	Restrictions: Only Vertical flame, FT1 and cable flame test
---	UL 2556: 2015 ANSI/UL 2556: 2015 ANSI/UL 2556A: 2013	Wire and cable test methods: Only vertical wiring FV-2, VW-1	
---	DIN 75200: 1980	Determination of burning behaviour of interior materials in motor vehicles	
---	FMVSS 571.302 STANDARD NO. 302:2013	Flammability of interior materials	
---	ECE-R118:2020	UN Regulation No 118 - Uniform technical prescriptions concerning the burning behaviour and/or the capability to repel fuel or lubricant of materials used in the construction of certain categories of motor vehicles	
---	ISO 3795: 1989	Road vehicles, and tractors and machinery for agriculture and forestry - Determination of burning behaviour of interior materials	
---	IEC 60112:2003 + A1:2009 IEC 60112 EDITION 4.1:2009	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
	DIN EN 60112:2010	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	
	EN 60112:2003	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	
Product Safety	Safety: Installation Equipment		
INST	DIN EN 61800-5-1 : 2017	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy	Restrictions: The partial discharge test according to EN 61800-5-1 is not performed. Only low-voltage up to max. 1kV.
INST	EN 61800-5-1: 2007 + A1: 2017	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy	Restrictions: The partial discharge test according to EN 61800-5-1 is not performed. Only low-voltage up to max. 1kV.
INST	IEC 61800-5-1: 2007 + AMD 1: 2016 IEC 61800-5-1 EDITION 2.1: 2016	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy	Restrictions: The partial discharge test according to EN 61800-5-1 is not performed. Only low-voltage up to max. 1kV.
INST	UL 61800-5-1: 2012 ANSI/UL 61800-5-1: 2017	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	Restrictions: The partial discharge test according to EN 61800-5-1 is not performed. Only low-voltage up to max. 1kV.

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
	DIN EN 50178: 1998	Electronic equipment for use in power installations; German version EN 50178:1997	Restrictions: Only low-voltage up to max. 1kV
	EN 50178: 1997	Electronic equipment for use in power installations; German version EN 50178:1997	Restrictions: Only low-voltage up to max. 1kV
INST	DIN EN IEC 62477-1:2019-03 (Entwurf) DIN EN 62477-1:2017-10	Safety requirements for power electronic converter systems and equipment - Part 1: General	
INST	DIN EN 62477-1: 2017	Safety requirements for power electronic converter systems and equipment - Part 1: General	50178 is replaced by 62477-1
INST	EN 62477-1: 2012 + A11: 2014 + A1: 2017	Safety requirements for power electronic converter systems and equipment - Part 1: General	50178 is replaced by 62477-1
INST	IEC 22/294/CD:2018	Safety requirements for power electronic converter systems and equipment - Part 1: General	
INST	IEC 62477-1: 2012 + AMD 1: 2016 IEC 62477-1 EDITION 1.1: 2016	Safety requirements for power electronic converter systems and equipment - Part 1: General	50178 is replaced by 62477-1
Product Safety	Safety: Standby power		
E3	IEC 62301 :2011	Household electrical appliances - Measurement of standby power	
E3	CAN/CSA-C62301-11: 2011	Household electrical appliances - Measurement of standby power	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
---	DIN EN 50564: 2011	Electrical and electronic household and office equipment - Measurement of low power consumption (IEC 62301:2011, modified)	.
---	EN 50564: 2011	Electrical and electronic household and office equipment - Measurement of low power consumption (IEC 62301:2011, modified)	
Product Safety	Safety: Measuring relays and protection equipment		
CONT	DIN EN 60255-27: 2014 VDE 0435-327	Measuring relays and protection equipment - Part 27: Product safety requirements	
CONT	EN 60255-27: 2014	Measuring relays and protection equipment - Part 27: Product safety requirements	
CONT	IEC 60255-27: 2013	Measuring relays and protection equipment - Part 27: Product safety requirements	
CONT	DIN EN 60730-1: 2017 VDE 0631-1	Automatic electrical controls - Part 1: General requirements	
CONT	EN 60730-1: 2016	Automatic electrical controls - Part 1: General requirements	
CONT	IEC 60730-1: 2013 + CORRIGENDUM 1: 2014 + AMD 1: 2015 IEC 60730-1 EDITION 5.1: 2015	Automatic electrical controls - Part 1: General requirements	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Product Safety	Safety requirements for secondary batteries and battery installations / Environmental Engineering (EE)/ IP		
BATT	DIN EN 50272-2: 2001	Safety requirements for secondary batteries and battery installations - Part 2: Stationary batteries	
BATT	DIN EN 60086-4: 2015 VDE 0509-4	Primary batteries - Part 4: Safety of lithium batteries (IEC 60086-4:2014)	
BATT	EN 60086-4: 2015	Primary batteries - Part 4: Safety of lithium batteries (IEC 60086-4:2014)	
BATT	IEC 60086-4: 2014 IEC 60086-4: 2007	Primary batteries - Part 4: Safety of lithium batteries (IEC 60086-4:2014)	
BATT	UL 60086-4: 2015	Primary batteries - Part 4: Safety of lithium batteries (IEC 60086-4:2014)	
BATT	UL 62133: 2017	Safety for 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	
BATT	CAN/CSA-E62133-13: 2013 CAN/CSA-C22.2 NO. 62133:2017	Safety for 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	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
BATT	EN 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	
BATT	EN 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	
BATT	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	
BATT	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	
BATT	EN 62619: 2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
BATT	IEC 62619: 2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	
BATT	Battery Association of Japan	Manual for transport of lithium / lithium ion batteries	Restrictions Only test 5 (External Short Circuit) and test 7 (Overcharge)
BATT	UN ST/SG/ AC.10/11 Rev 5 AMD1, 2013 Rev 6, 2015 + Amendment 1	United Nations: Recommendations on the Transport of dangerous goods – Manual of Test and Criteria – Section 38.3 Lithium batteries (ST/SG/AC.10/27/Add2)	Restrictions Only Test T5 (External Short Circuit) and Test T7 (Overcharge)
	DIN ETS 300 132-1: 2005 ETS 300132-1: 1996	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 1: Operated by alternating current (ac) derived from direct current (dc) sources	
	DIN EN 300 132-2: 2012 DIN EN 300132-2: 2017 EN 300132-2: 2016 ETSI 300 132-2: 1996 ETS 300132-2 CORRIGENDUM 1: 1996	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 2: Operated by direct current (dc) -48 V	
	DIN EN 300 132-3: 2005 DIN EN 300132-3-0: 2013 DIN EN 300132-3-1: 2013 ETSI EN 300 132-3	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
	DIN EN 60529:2014	Degrees of protection provided by enclosures (IP Code) IP 1x, 2x, 3x, 4x, 5x, x1, x2, x3, x4, x5, x6, x7, x8	
	EN 60529: 1991+ A1: 2000+A2: 2013+ AC: 2016	Degrees of protection provided by enclosures (IP Code) IP 1x, 2x, 3x, 4x, 5x, x1, x2, x3, x4, x5, x6, x7, x8	
	IEC 60529: 1989 AMD 1:1999 AMD 2:2013 IEC 60529 EDITION 2.1: 2001 + CORRIGENDUM 2: 2007 + CORRIGENDUM 3: 2009 IEC 60529 EDITION 2.2: 2013 + CORRIGENDUM 1 : 2013 + CORRIGENDUM 2: 2015	Degrees of protection provided by enclosures (IP Code) IP 1x, 2x, 3x, 4x, 5x, x1, x2, x3, x4, x5, x6, x7, x8	
	CAN/CSA-C22.2 NO. 60529: 2016	Degrees of protection provided by enclosures (IP Code)	
	UL 507: 2018	Standard for Electric Fans	
	UL 751: 2012 UL 751: 2016 ANSI/UL 751: 2012 ANSI/UL 751: 2016	Standard for Vending Machines	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Product Safety	Safety: NEBS		
NEBS	Telcordia GR-3108-CORE	Generic Requirements for Network Equipment in the Outside Plant (OSP) Restrictions	Only section 5 (Electrical Requirements)
NEBS	Telcordia GR-63-Core	NEBSTM Requirements: Physical Protection Restrictions	Only Part 4.2 und 5.2.3 needle flame test
NEBS	Telcordia GR-1089-Core	Electromagnetic Compatibility (EMC) and Electrical Safety – Generic Criteria for Network Telecommunications Equipment Chapter 7, 8, 9	
Product Safety	Safety: Luminaires		
LITE	DIN EN 62471: 2009 VDE 0837-471	Photobiological safety of lamps and lamp systems	
LITE	EN 62471: 2008	Photobiological safety of lamps and lamp systems	
LITE	IEC 62471: 2006	Photobiological safety of lamps and lamp systems	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Product Safety	Safety: Plugs and socket-outlets for household and similar purposes		
INST	IEC 60884-1: 2002 + AMD 1: 2006 + AMD 2: 2013 + AMD 2 CORRIGENDUM 1: 2014 IEC 60884-1 EDITION 3.1: 2006 IEC 60884-1 EDITION 3.2: 2013	Plugs and socket-outlets for household and similar purposes - Part 1: General requirements (+ IEC 60884-1 AMD 1)	
INST	IEC 60884-2-5: 1995 IEC 60884-2-5: 2017	Plugs and socket-outlets for household and similar purposes - Part 2: Particular requirements for adaptors	
INST	BS 1363-1+A4: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs	
INST	BS 1363-2: 1999 BS 1363-2+A1:2016	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets	
INST	EN 50075: 1990	Plugs and socket-outlets up to 400 V 25 A; flat non-wirable two pole plugs, 2,5 A 250 V, with cord, for the connection of class-II-equipment for household and similar purposes	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Product Safety	Safety: E Mobility / Electrical Vehicle		
ELVH	DIN EN 62196-1: 2015	Plugs, socket-outlets, vehicle couplers and vehicle inlets - Conductive charging of electric vehicles - Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c.	
ELVH	EN 62196-1: 2014	Plugs, socket-outlets, vehicle couplers and vehicle inlets - Conductive charging of electric vehicles - Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c.	
ELVH	IEC 62196-1: 2014	Plugs, socket-outlets, vehicle couplers and vehicle inlets - Conductive charging of electric vehicles - Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c.	
ELVH	DIN EN 61851-1: 2012	Electric equipment of electric road vehicles - Electric vehicle conductive charging system - Part 1: General requirements	
ELVH	EN 61851-1: 2011	Electric equipment of electric road vehicles - Electric vehicle conductive charging system - Part 1: General requirements	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
ELVH	IEC 61851-1: 2010 IEC 61851-1: 2017	Electric equipment of electric road vehicles - Electric vehicle conductive charging system - Part 1: General requirements	
ELVH	EN 61851-21: 2002	Electric vehicle conductive charging system - Part 21: Electric vehicle requirements for conductive connection to an a.c./d.c. supply	
ELVH	DIN EN 61851-22: 20012	Electric vehicle conductive charging system - Part 22: a.c. electric vehicle charging station	
ELVH	EN 61851-22: 2002	Electric vehicle conductive charging system - Part 22: a.c. electric vehicle charging station	
ELVH	IEC 61851-22: 2001	Electric vehicle conductive charging system - Part 22: a.c. electric vehicle charging station	

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Product Safety	Safety: Low-voltage switchgear and controlgear assemblies		
POW	DIN EN 61439-1: 2011 + BEIBLATT 1: 2014 + BEIBLATT 1 BERICHTIGUNG 1: 2014 + BEIBLATT 2: 2016	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	
POW	EN 61439-1: 2011	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	
POW	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	
POW	IEC-61439-7: 2018	IEC 61439-7, Ed. 1: Low-voltage switchgear and controlgear assemblies – Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
Product Safety	Syfyet: Safety of machinery / Uninterruptible power systems (UPS)		
HOUS,INDA	DIN EN ISO 12100: 2011 + BERICHTIGUNG 1: 2013 DIN EN ISO 12100: 1997 ISO 12100: 2010	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010); German version EN ISO 12100:2010	
HOUS,INDA	DIN EN 60204-1: 2007 +A1: 2009 + BERICHTIGUNG 1: 2010	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2005, modified); German version EN 60204-1:2006	
HOUS,INDA	EN 60204-1: 2006 + A1: 2009 + AC: 2010	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2005, modified); German version EN 60204-1:2006	
HOUS,INDA	IEC 60204-1: 2016	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	
OFF	DIN EN 62040-1: 2013 + BERICHTIGUNG 1: 2016	Uninterruptible power systems (UPS) - Part 1: General and safety requirements for UPS (IEC 62040-1:2008 + Corrigendum September 2008 + A1:2013); German version EN 62040-1:2008 + Corrigendum February 2009 + A1:2013	
OFF	EN 62040-1: 2008 + AC: 2009 +A1: 2013	Uninterruptible Power Systems (UPS) – Part 1: General and safety requirements for UPS.	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
OFF	IEC 62040-1:2017-07	Uninterruptible Power Systems (UPS) – Part 1: General and safety requirements for UPS.	This International Standard is to be read in conjunction with IEC 62477-1:2012. (was earlier 60950-1)
OFF	DIN EN 62040-3: 2011 VDE 0558-530	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements	
OFF	EN 62040-3: 2011	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements	
OFF	IEC 62040-3: 2011+ CORRIGENDUM 1:2011	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements	
OFF	DIN EN 62040-4: 2014 VDE 0558-540	Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting	
OFF	EN 62040-4: 2013	Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting	
OFF	IEC 62040-4: 2013	Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
No flexible accreditation			
Automotive/ Manufacturer			
EMC	LV124:2013	Electrical and electronic components in vehicles up to 3.5t - general requirements, test conditions and tests	
EMC	LV148:2013	Electrical and electronic components in motor vehicles with 48V electrical system; Requirements and tests	
EMC	BMW Group Standard GS 95002-2: 2013-07	Motor vehicles; Electromagnetic Compatibility (EMC); Requirements and tests on components with nominal voltage as of 60V	
EMC	BMW Group Standard GS 95002-3: 2015-12	Motor vehicles; Electromagnetic Compatibility (EMC); Requirements and tests on components with nominal voltage as of 60V	Test HV_TI01: Pulse HV1 not available, Spare with Burst-pulse according to EN 61000-4-4
EMC	BMW Group Standard GS 95002-5: 2015-03	Motor vehicles; Electromagnetic Compatibility (EMC); Requirements and tests in the frequency range 9 kHz to 30 MHz	
EMC	BMW Group Standard GS 95024-2-1: 2010-01	Electrical and electronic components in motor vehicles; Electrical requirements and tests	
EMC	BMW Group Standard GS 95024-2-2: 2011-02	Electrical and electronic components in motor vehicles; Electrical requirements and tests; Additional requirements and tests	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	BMW Group Standard GS 95025-1: 2012-05	Motor vehicles; Environmental requirements for electric and electronic equipment; EMC characteristics	Without EQ/CI_02 Test HV_TI01: Pulse HV1 not available, Spare with Burst-pulse according to EN 61000-4-4
EMC	Volkswagen AG VW 80000: 2009-10	Electrical and electronic components in vehicles up to 3.5 t; General requirements, test conditions and tests	Only electrical test (Teil I)
EMC	Volkswagen AG VW 80000: 2013-06	Electrical and electronic components in vehicles up to 3.5 t; General requirements, test conditions and tests	Only electrical test (Teil I)
EMC	Volkswagen AG VW 80000: 2017-10	Electrical and electronic components in vehicles up to 3.5 t; General requirements, test conditions and tests	Only electrical test (Teil I)
EMC	Volkswagen AG VW 82148: 2013-09	Electrical and electronic components in motor vehicles; 48V electrical system; Requirements and tests	
EMC	Volkswagen AG VW 81000: 2014-04	EMC requirements - Vehicle - Electronic components	Only components
EMC	Volkswagen AG VW 81000: 2016-02	EMC requirements - Vehicle - Electronic components	Only components; mobile testing only at component level only up to 2,7 GHz; chapter 3.3.11 „Isotrope Magnetfeldspule 100 cm ² “: H-Feld: 0 Hz bis 1 GHz

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	Volkswagen AG VW 81000: 2018-03	EMC requirements - Vehicle - Electronic components	Only components; mobile testing only at component level only up to 2,7 GHz; chapter 5.3.11 „Isotrope Magnet- feldspule 100 cm ² “: H-Feld: 0 Hz bis 1 GHz
EMC	M 3285:2017-07	Electromagnetic compatibility (EMC) in MAN commercial vehicles	Without chapter 7 (cars) and 9.3 (NEMP)
EMC	Daimler AG MBN 10284-2: 2011-04	EMC requirements - component tests (cars and vans)	
EMC	Mercedes-Benz MBN 10284-2: 2015-07	EMC requirements - component tests (cars and vans)	NFA-Test: original antenna or replacement antenna not available, without CRC-Test
EMC	Daimler AG MBN 10284-3: 2015-07	EMC Requirements – Additional high- voltage requirements	Only chapter 8, without 8.16 CRC- Test
EMC	Daimler AG MBN 10284-4: 2011-04	EMC Requirements Compatibility Specification Component tests (commercial vehicles and buses)	
EMC	Daimler AG MBN 10284-4: 2017-07	EMC Requirements Compatibility Specification Component tests (commercial vehicles and buses)	

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	Mercedes-Benz MBN LV124-1: 2011-03	Electrical and electronic components in passenger vehicles up to 3.5 t - general requirements, test conditions and tests Part I: Electrical requirements and tests 12 V electrical system	
EMC	Mercedes-Benz MBN LV124-1: 2013-03	Electrical and electronic components in passenger vehicles up to 3.5 t - general requirements, test conditions and tests Part I: Electrical requirements and tests 12 V electrical system	
EMC	Mercedes-Benz MBN LV148: 2013-11	Electrical and electronic components in the motor vehicle - 48V electrical system Requirements and test conditions	
EMC	Renault 36-00-808/--M 2012-07	Resistance to electrical disturbances and electromagnetic compatibility instructions concerning electrical electronic and pyrotechnic equipment	Without EQ/IC_09, EQ/IC_11, EQ/MC_01 Bei EQ/IR_05 only Frequency range 360 MHz – 2,7 GHz
EMC	Renault 36-00-808/--N: 2016	Resistance to electrical disturbances and electromagnetic compatibility instructions concerning electrical electronic and pyrotechnic equipment	Without EQ/IC_09, EQ/IC_11, EQ/MC_01 Bei EQ/IR_05 only Frequency range 360 MHz – 2,7 GHz
EMC	Hyundai KIA ES 96200-00, L 2014-06	Electromagnetic Compatibility Specification	Without Test 4.4.6 Commercial transmitter

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC	Volvo STD 515-0003 2009-10	Parts and components Electro-magnetic compatibility, EMC	Only Component Test „9.1 - Immunity to low- frequency magnetic fields“ bei DC only up to 8000 A/m possible
EMC	Scania TB1901 2007-04	Technical Regulation Requirements and verification methods for electrical factors in a 24V system	Only Component Test “6.1.22 EMC protection, immunity (component level testing)” only with antenna from 200 MHz possible
Procedures of international standardization organizations Section			
EMC (USA)	ASTM D 4935: 2010	Limits and methods of measurement of radio disturbance characteristics of information technology equipment	
EMC (USA)	ATIS-0600315: 2013	Voltage Levels for dc-powered equipment used in the telecommunication environment	
EMC (USA)	GR-1089-CORE Issue 6:2011	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. Chapter 2, 3, 4, 5, 6, 10	No Surge and AC Faults on coax. cables

Annex to the accreditation certificate D-PL-11020-03-01

Test area	Norm / Standard /Version	Title of standard or procedure	Test area / restriction
EMC (Canada)	CAN/CSA-CEI/IEC CISPR 11 :04 2013	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	Only 3m, 10m distance
EMC (Canada)	CAN/CSA-CISPR 12-10:2010	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	No boats
EMC (Canada)	ICES-001 Issue 4 :2006 + update 2014	Industrial, Scientific and Medical (ISM) Radio Frequency Generators	
EMC (Canada)	ICES-002 Issue 6 :2013 + update 2014 + update 2017	Vehicles, Boats and Other Devices Propelled by an Internal Combustion Engine, Electrical Means or Both	No boats
EMC (Canada)	ICES 003 Issue 6 :2019	Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement	fmax = 40 GHz
EMC	IEEE Std 299: 2006	IEEE Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures	
EMC	NSA 65-6 :1964	National Security Agency Specification for R.F. shielded enclosure for communication equipment	

Abbreviations used:

DIN Deutsches Institut für Normung e.V.
NDS In house method of the CAB

Valid from: 11.11.2020
Date of issue: 18.12.2020