

Deutsche Akkreditierungsstelle GmbH

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01 nach DIN EN ISO/IEC 17025:2018

Gültig ab: 09.06.2020

Ausstellungsdatum: 10.07.2020

Urkundeninhaber:

CTC advanced GmbH
Untertürkheimer Straße 6-10, 66117 Saarbrücken

Prüfungen in den Bereichen:

Elektromagnetische Verträglichkeit (EMV), Elektrotechnik (SEB)

Prüfungen in den Bereichen:

Seiten

D	Elektromagnetische Verträglichkeit (EMV)	2 ... 10
D.1	Grundnormen	2 ... 3
D.2	Fachgrundnormen	3
D.3	Produktnormen	4 ... 10
D.4	Hearing Aids Compatibility	10
E	Produktsicherheit	11 ... 26
F	SAR / EMF	26 ... 29
G	Umwelt	30 ... 32
H	Smart Card Technology	32
H1	Smart Card Terminals, Level 1 Type Approval Test	32
H2	RF Schnittstelle für ID-Dokumente	32
I	Bluetooth®	33
K	Automotive	33... 37
O	Akustik	38 ... 41

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Innerhalb der mit * gekennzeichneten Akkreditierungsbereiche ist dem Prüflaboratorium, ohne dass es einer vorherigen Information und Zustimmung der DAkkS bedarf, die Anwendung der hier aufgeführten genormten oder ihnen gleichzusetzenden Prüfverfahren mit unterschiedlichen Ausgabeständen gestattet.

Das Prüflaboratorium verfügt über eine aktuelle Liste aller Prüfverfahren im flexiblen Akkreditierungsbereich.

Die mit ** gekennzeichneten Akkreditierungsbereiche unterliegen nicht der Flexibilisierung.

D Elektromagnetische Verträglichkeit (EMV)

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
D.1 Grundnormen / Basic Standards *			
EMV	EN IEC 61000-3-2:2019 IEC 61000-3-2:2018	Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMV	EN 61000-3-3:2013 IEC 61000-3-3:2013 + A1:2017	... -- 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	
EMV	EN 61000-4-2:2009 IEC 61000-4-2:2008	... -- Part 4-2: Testing and measurement techniques – electrostatic discharge immunity test	
EMV	EN 61000-4-3: 2006 + A1:2008 + A2:2010 IEC 61000-4-3:2006 + A1:2007 + A2:2010	... -- Part 4-3: Testing and measurement techniques – radiated, radio frequency, electromagnetic field immunity test	
EMV	EN 61000-4-4:2012 IEC 61000-4-4:2012	... -- Part 4-4: Testing and measurement techniques – electrical fast transient/burst immunity test	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	EN 61000-4-5:2014 + A1:2017 IEC 61000-4-5:2014 + A1:2017	... -- Part 4-5: Testing and measurement techniques – surge immunity test	
EMV	EN 61000-4-6:2014 IEC 61000-4-6:2013	... -- Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EMV	EN 61000-4-8:2010 IEC 61000-4-8:2009	... -- Part 4-8: Testing and measurement techniques – power frequency magnetic field immunity test	
EMV	EN 61000-4-9:2016 IEC 61000-4-9:2016	... -- Part 4-9: Testing and measurement techniques – pulse magnetic field immunity test	
EMV	EN 61000-4-11:2004 IEC 61000-4-11:2020	... -- Part 4-11: Testing and measurement techniques – voltage dips, short interruptions and voltage variations immunity test	
D.2 Fachgrundnormen / Generic Standards *			
EMV	EN IEC 61000-6-1:2019 IEC 61000-6-1:2016	... -- Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments	
EMV	EN IEC 61000-6-2:2019 IEC 61000-6-2:2016	... -- Part 6-2: Generic standards - Immunity for industrial environments	
EMV	EN 61000-6-3: 2007 + A1:2011 IEC 61000-6-3 2006 + A1:2010 AS/NZS 61000.6.3:2012	... -- Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	EN 61000-6-4: 2007 + A1:2011 IEC 61000-6-4:2018 AS/NZS 61000.6.4:2007	... -- Part 6-4: Generic standards - Emission standard for industrial environments	
D.3 Produktnormen / Product Standards *			
EMV	EN 13241-1:2003+A2:2016	Tore- Produktnorm – Teil 1: Produkte ohne Feuer- und Rauchschutzeigenschaften;	
EMV	EN 50065-1:2011	Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz -Part 1 : General requirements, frequency bands and Electromagnetic disturbances	
EMV	DIN EN 50121-3-2: 2016-01	Bahnanwendungen - Elektromagnetische Verträglichkeit - Teil 3-2: Bahnfahrzeuge - Geräte; Deutsche Fassung EN 50121-3-2:2006	
EMV	EN 50121-4:2016	Railway applications – Electromagnetic compatibility (EMC) –Part 4: Emission and immunity of signalling and telecommunications apparatus	
EMV	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	
EMV	EN 50293:2012	Electromagnetic compatibility – Road traffic signal systems – Product standard	
EMV	EN 50412-2-1:2005 VDE 0808-121:2006-04	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	
EMV	DIN EN 50561-1: 2014-08	Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics -	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	EN 55011:2016 +A1:2017 IEC/CISPR 11 2015 + A1:2016 + A2:2019	Industrial, scientific and medical (ISM) radio frequency equipment - Radio disturbances characteristic - Limits and methods of measurement.	
EMV	EN 55014-1:2016 IEC/CISPR 14-1: 2016 AS/NZS CISPR 14.1:2013	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -Part 1 : Emission	
EMV	EN 55014-2:2015 IEC/CISPR 14-2:2015	... -Part 2: Immunity - Product family Standard	
EMV	EN 55022:2010 IEC/CISPR 22 2008, modifiziert AS/NZS CISPR 22: 2009/Amdt :2010	Information technology equipment –Radio disturbance characteristics - Limits and methods of measurement	
EMV	EN 55024:2010+ A1:2015 IEC/CISPR 24:2010+ Cor.:2011+A1:2015	Information technology equipment -Immunity characteristics - Limits and methods of measurement	
EMV	DIN EN 55032:2016-02	Elektromagnetische Verträglichkeit von Multimediageräten und -einrichtungen - Anforderungen an die Störaussendung (CISPR 32:2012+ Cor. 1:2012 + Cor. 2:2012); Deutsche Fassung EN 55032:2012	
EMV	DIN EN 55035: 2018-04 EN 55035:2017	Elektromagnetische Verträglichkeit von Multimediageräten – Anforderungen zur Störfestigkeit (CISPR 35:2016, modifiziert)	
EMV	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 : Emission	
EMV	EN 55103-2:2009	... -Part 2: Immunity	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	EN 60669-2-1:2004/A1:2009	Switches for household and similar fixed electrical installations -- Part 2-1: Particular requirements - Electronic switches	
EMV	EN 60669-2-2:2006 IEC 60669-2-2:2006	... -Part 2: Particular requirements -Section 2: Electromagnetic remote-control Switches (RCS)	
EMV	EN 60669-2-3:2006 IEC 60669-2-3:2006	... -- Part 2-3: Particular requirements - Time-delay switches (TDS)	
EMV	EN 60945:2002 IEC 60945 4th edition:2002	Maritime navigation and radio communication equipment and Systems - General requirements - Methods of testing and required test results	only EMC
EMV	EN IEC 61800-3:2018 IEC 61800-3: 2017	Adjustable speed electrical power drive Systems --Part 3: EMC requirements and specific test methods	
EMV	EN IEC 61204-3:2018 IEC 61204-3:2016	Stromversorgungsgeräte für Niederspannung mit Gleichstromausgang	
EMV	DIN EN 61326-1: 2013-07	Titel (deutsch): Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 1: Allgemeine Anforderungen (IEC 61326-1:2012); Deutsche Fassung EN 61326-1:2013	
EMV	EN 300 386 V2.1.1 :2016-07	Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunications network equipment Electromagnetic Compatibility (EMC) requirements	
EMV	EN 301 843-1 V2.2.1:2017-11	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for marine radio equipment and services; Part 1: Common technical requirements	
EMV	EN 301 843-2 V2.2.1:2017-11	... Part 2: Specific conditions for radiotelephone transmitters and receivers	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	EN 301 843-4 V2.2.1:2017-11	... Part 4: Specific conditions for Narrow-Band Direct-Printing (NBDP) NAVTEX receivers	
EMV	ETSI EN 301 489-1 V2.2.3:2019-11	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1 : Common technical requirements	
EMV	ETSI EN 301 489-2 V2.1.1:2019-04	... Part 2: Specific conditions for radio paging equipment	
EMV	ETSI EN 301 489-3 V2.1.1:2019-03	... Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	
EMV	ETSI EN 301 489-4 V3.2.1:2019-04	... Part 4: Specific conditions for fixed radio links and ancillary equipment and services	
EMV	ETSI EN 301 489-5 V2.2.1:2019-04	... Part 5: Specific conditions for Private land Mobil Radio (PMR) and ancillary equipment (speech and non-speech)	
EMV	ETSI EN 301 489-6 V2.2.1:2019-04	... Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	
EMV	EN 301 489-7 V1.3.1:2005-11	... Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	
EMV	EN 301 489-8 V1.2.1:2002-08	... Part 8: Specific conditions for GSM base stations	
EMV	ETSI EN 301 489-9 V2.1.1:2019-04	... Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	EN 301 489-10 V1.3.1:2002-08	...; Part 10: Specific conditions for First (CT1 and CT1+) and Second Generation (CT2) Cordless Telephone equipment	
EMV	EN 301 489-11 V1.3.1:2006-05	... Part 11: Specific conditions for terrestrial sound broadcasting service transmitters	
EMV	EN 301 489-12 V3.1.1:2019-04	... Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)	
EMV	EN 301 489-13 V1.2.1:2002-08	...; Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	
EMV	EN 301 489-14 V1.2.1:2003-05	... Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitter"	
EMV	ETSI EN 301 489-15 V2.2.1:2019-04	...; Part 15: Specific conditions for commercially available amateur radio equipment	
EMV	EN 301 489-16 V1.2.1:2002-08	...; Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable	
EMV	ETSI EN 301 489-17 V3.1.1:2017-02	...; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment	
EMV	ETSI EN 301 489-19 V2.1.1:2019-04	...; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications	
EMV	ETSI EN 301 489-20 V2.1.1:2019-04	...; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	EN 301 489-22 V1.3.1:2003-11	...; Part 22: Specific conditions for ground based VHF aeronautical mobile and fixed radio equipment	
EMV	EN 301 489-23 V1.5.1:2011-07	...; Part 23: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) Base Station (BS) radio, repeater and ancillary equipment	
EMV	EN 301 489-24 V1.5.1:2010-10	...; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and portable (UE) radio and ancillary equipment	
EMV	EN 301 489-25 V2.3.2:2005-07	...; Part 25: Specific conditions for IMT-2000 CDMA Multi-carrier Mobile Stations and ancillary equipment	
EMV	EN 301 489-26 V2.3.2:2005-07	...; Part 26: Specific conditions for IMT-2000 CDMA Multi-carrier Base Stations and ancillary equipment	
EMV	ETSI EN 301 489-27 V2.2.1:2019-04	...; Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)	
EMV	EN 301 489-28 V1.1.1:2004-09	...; Part 28: Specific conditions for wireless digital video links	
EMV	ETSI EN 301 489-31 V2.2.1:2019-04	...; Part 31: Specific conditions for equipment in the 9 to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)	
EMV	ETSI EN 301 489-33 V2.2.1:2019-04	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 33: Specific conditions for Ultra Wide Band (UWB) communication devices	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	ETSI EN 301 489-34 V2.1.1:2019-04	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	
EMV	ETSI EN 301 489-50 V2.2.1:2019-04	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	
EMV	ETSI EN 301 489-51 V2.1.1:2019-04	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 3.1b of Directive 2014/53/EU	
EMV	Draft ETSI EN 301 489-52 V1.1.0 (2016-11)	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	
D.4 Hearing Aids Compatibility *			
	IEEE C63.19:2019 IEEE C63.19:2011	Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids	

E Produktsicherheit *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 60065: 2015 EN 60065:2011 2002/A1/A2/A11/A12/AC VDE 0860: 2015 IEC 60065: 2014 IEC 60065 : 2011 UL 60065: 2015 UL 60065: 2003 CAN/CSA-C22.2 NO. 60065: 2016 AS/NZS 60065: 2012/A1: 2015 AS/NZS 60065: 2018	Audio-, Video- und ähnliche elektronische Geräte - Sicherheitsanforderungen (Audio, Video and Similar Electronic Apparatus – Safety Requirements)	
SEB	EN 60086-4: 2015 IEC 60086-4: 2014 IEC 60086-4: 2019	Primary batteries - Part 4: Safety of lithium batteries	
SEB	EN 60086-5: 2016 EN 60086-5: 2011 IEC 60086-5: 2016 IEC 60086-5: 2011	Primary batteries - Part 5: Safety of batteries with aqueous electrolyte	
SEB	EN 60215: 1989/A1/A2 VDE 0866: 1993/A1/A2 IEC 60215: 1987/A1/A2 IEC 60215: 2016	Sicherheitsbestimmung für Funksender (Safety requirements for radio transmitting equipment)	
SEB	EN 60335-1: 2012/A11: 2014 IEC 60335-1: 2010/ Corr.1:2010/Corr. 2:2011/ A1:2013/A2:2016	Household and similar electrical appliances – Safety – Part 1: General requirements	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 60335-2-29: 2019 EN 60335-2-29: 2004/ A2:2010 E EN 60335-2-29: 2015 IEC 60335-2-29: 2016/A1:2019 IEC 60335-2-29: 2002/A1:2004/A2:2009	- Teil 2-29: Besondere Anforderungen für Batterieladegeräte (-Part 2-29: Particular requirements for battery chargers)	
SEB	EN 60335-2-95: 2019 EN60335-2-95: 2016 IEC60335-2-95: 2011/ A1:2015 / A2:2017	- Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use	
SEB	EN60335-2-97: 2010 EN 60335-2-97:2017 IEC60335-2-97:2016/A1:2019 IEC60335-2-97: 2002/ A1:2004/A2:2008	- Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment	
SEB	EN 60669-1: 2019 EN 60669-1: 2009 IEC 60669-1:2017 IEC 60669-1:1998/A1:1999 /A2:2006	Switches for household and similar fixed- electrical installations - Part 1: General requirements	
SEB	EN 60669-2-1: 2010 IEC 60669-2-1: 2002/ A1:2008 /A2:2015	- Part 2-1: Particular requirements - Electronic switches	
SEB	EN 60695-11-5: 2017 EN 60695-11-5:2005 IEC 60695-11-5: 2016 IEC 60695-11-5:2004	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 60695-2-10: 2014 E EN IEC 60695-2-10: 2019 IEC 60 695-2-10: 2013	Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure	
SEB	EN 60695-2-11:2014 E EN IEC 60695-2-11: 2019 EN 60695-11-5:2005 IEC 60695-2-11: 2014	Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products	
SEB	EN 60695-2-12:2011/A1 E EN IEC 60695-2-12: 2019 IEC 60695-2-12: 2010/A1	Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability test method for materials	
SEB	EN 60695-11-10:2014 IEC 60695-11-10: 2013	Part 11-10: Test flames – 50 W horizontal and vertical flame test methods	
SEB	EN 60695-11-20: 2015/AC IEC 60 695-11-20: 2015/C1	Part 11-20: Test flames – 500 W flame test methods	
SEB	EN 60730-1: 2016 EN 60730-1: 2012 IEC 60730-1: 2013/A1	Automatic electrical controls for household and similar use - Part 1: General requirements	
SEB	EN 60730-2-2: 2006 IEC 60730-2-2: 2001/A1	Automatic electrical controls for household and similar use - Part 2-2: Particular requirements for thermal motor protectors	
SEB	EN 60730-2-3: 2008 IEC 60730-2-3: 2006	Automatic electrical controls for household and similar use - Part 2-3: Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 60730-2-4: 2008 IEC 60730-2-4: 2006	Automatic electrical controls for household and similar use - Part 2-4: Particular requirements for thermal motor protectors for motor-compressors of hermetic and semi-hermetic type	
SEB	EN 60730-2-6: 2016 EN 60730-2-6: 2009 IEC 60730-2-6: 2015/A1:2019	Automatic electrical controls for household and similar use - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	
SEB	EN 60730-2-7: 2011 E EN60730-2-7: 2014 IEC 60730-2-7: 2015	Automatic electrical controls for household and similar use - Part 2-7: Particular requirements for timers and time switches	
SEB	EN 60730-2-8: 2004 E EN 60730-2-8: 2018 IEC 60730-2-8: 2018 IEC 60730-2-8: 2000/A1/A2	Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements	
SEB	EN IEC 60730-2-9:2020 EN 60730-2-9: 2011 IEC 60730-2-9: 2015 / A1:2018	Automatic electrical controls for household and similar use - Part 2-9: Particular requirements for temperature sensing controls	
SEB	EN 60730-2-10: 2008 IEC 60730-2-10: 2006	Automatic electrical controls for household and similar use - Part 2-10: Particular requirements for motor-starting relays	
SEB	EN 60730-2-11: 2008 IEC 60730-2-11: 2019 IEC 60730-2-11: 2006	Automatic electrical controls for household and similar use - Part 2-11: Particular requirements for energy regulators	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN IEC 60730-2-12: 2019 EN 60730-2-12: 2006 IEC 60730-2-12: 2015	Automatic electrical controls for household and similar use - Part 2-12: Particular requirements for electrically operated door locks	
SEB	EN IEC 60730-2-13: 2018/AC EN 60730-2-13: 2008 IEC 60730-2-13: 2017 IEC 60730-2-13: 2006	Automatic electrical controls for household and similar use - Part 2-13: Particular requirements for humidity sensing controls	
SEB	EN IEC 60730-2-14: 2019 EN 60730-2-14: 2009 IEC 60730-2-14: 2017/A1 IEC 60730-2-14: 1995/A1/A2	Automatic electrical controls for household and similar use - Part 2-14: Particular requirements for electric actuators	
SEB	EN IEC 60730-2-15: 2020 EN 60730-2-15: 2011 IEC 60730-2-15: 2017 IEC 60730-2-15: 2008	Automatic electrical controls for household and similar use - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls	
SEB	EN 60730-2-19: 2009 IEC 60730-2-19: 1997/A1/A2	Automatic electrical controls for household and similar use - Part 2-19: Particular requirements for electrically operated oil valves, including mechanical requirements	
SEB	EN 60825-1: 2015 IEC 60825-1: 2014	Safety of laser products - Part 1: Equipment classification and requirements	
SEB	EN 60825-2: 2011 E EN IEC 60825-2:2019 IEC 60825-2: 2004/A1/A2	Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS)	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	IEC 60 884-1:2002 /A1/A2	Plugs and socket-outlets for household and similar purposes –Part 1: General requirements	
SEB	VDE 0620-1: 2016 E VDE 0620-1: 2019	Stecker und Steckdosen für den Hausgebrauch und ähnliche Anwendungen – Teil 1: Allgemeine Anforderungen an ortsfeste Steckdosen	
SEB	VDE 0620-2-1: 2016 E VDE 0620-2-1:2019	Stecker und Steckdosen für den Hausgebrauch und ähnliche Anwendungen – Teil 2-1: Allgemeine Anforderungen an Stecker und Kupplungsdosen	
SEB	BS 1363-1: 2016/A1	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs	
SEB	BS 1363-2: 2016/A1	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlet	
SEB	BS 1363-3: 2016/A1	13 A plugs, socket-outlets, adaptors and connection units. Specification for adaptors	
SEB	AS/NZS 3112: 2017	Approval and Test specification – Plugs and socket-outlets	
SEB	NF C61-314: 2017 NF C61-314:2008/A1:2010	Plugs and socket-outlets for household and similar purposes – 6A/250V and 16A/250V	
SEB	SEV 1011: 2009	Stecker und Steckdosen für den Hausgebrauch und ähnliche Zwecke	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	SEV-1011/A1:2012	Stecker und Streckdosen für den Hausgebrauch und ähnliche Zwecke – A1: Abzweig- und Zwischenstecker, Verlängerungskabel, Steckdosenleisten sowie Reise- und Fixadapter	
SEB	EN 50075: 1990 VDE 0620-101:1992	Steckvorrichtungen bis 400 V 25 A Flache, nichtwiederanschließbare zweipolige Stecker, 2,5 A 250 V, mit Leitung, die für die Verbindung von Klasse-II-Geräten für Haushalt und ähnliche Zwecke (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)	
SEB	EN 60 950-1: 2014 VDE 0805-1: 2014 IEC 60950-1: 2005/A1/A2 UL 60950-1: 2007 CAN/CSA-C22.2 NO. 60950-1-07: R2016 CAN/CSA-C22.2 NO. 60950-1A-07: R2016 CAN/CSA-C22.2 NO. 60950-1B-07: R2016 AS/NZS 60950.1: 2015	Einrichtungen der Informationstechnik – Sicherheit, Teil 1: Allgemeine Anforderungen (Information Technology Equipment – Safety – Part1: General requirements)	
SEB	EN 60950-21: 2003 VDE 0805-21: 2003 IEC 60950-21: 2002	Information technology equipment – Safety – Part 21: Remote power feeding	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 60950-22: 2017 EN 60950-22: 2006/AC VDE 0805-22: 2006 IEC 60950-22: 2016	Information technology equipment – Safety – Part 22: Equipment to be installed outdoors	
SEB	EN 61010-1:2010/A1/AC EN 61010-1: 2011 IEC 61010-1: 2010/ A1:2016	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	
SEB	EN 61010-2-010: 2014 E EN 61010-2-010: 2018 IEC 61010-2-010: 2019 IEC 61010-2-010: 2014	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials	
SEB	EN 61010-2-020: 2017 EN 61010-2-020: 2007 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	
SEB	EN 61010-2-030: 2011 EN 61010-2-030: 2015 IEC 61010-2-030: 2017 IEC 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	
SEB	EN 61010-2-032:2012 E EN 61010-2-032: 2018 IEC 61010-2-032: 2019 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	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 61010-2-040: 2015 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	
SEB	EN 61010-2-051: 2015 E EN 61010-2-051: 2018 IEC 61010-2-051: 2018 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	
SEB	EN 61010-2-061: 2016 E EN 61010-2-061: 2018 IEC 61010-2-061: 2018 IEC 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	
SEB	EN 61010-2-081: 2015 E EN 61010-2-081: 2018 IEC 61010-2-081: 2018 IEC 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	
SEB	EN 61010-2-101: 2017 EN 61010-2-101: 2003 IEC 61010-2-101: 2018 IEC 61010-2-101: 2015	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 61010-2-201: 2013/AC 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	
SEB	EN 61010-031: 2016 IEC 61010-031: 2015/A1	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	
SEB	EN 61058-1: 2017 EN 61058-1: 2002/A2:2008 IEC 61058-1:2016 IEC 61058-1:2000 /A1:2001/A2:200	Switches for appliances - Part 1: General requirements	
SEB	EN 61058-2-4:2005 E EN 61058-2-4: 2017 IEC 61058-2-4: 2018 IEC 61058-2-4:1995 /A1:2003	Switches for appliances - Part 2-4: Particular requirements for independently mounted switches	
SEB	EN 61558-1: 2006/A1: 2009 IEC61558-1: 2017 IEC 61558-1: 2005/A1: 2009	Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests	
SEB	EN 61558-2-1: 2007 IEC 61558-2-1: 2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 61558-2-2: 2007 IEC 61558-2-2: 2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers	
SEB	EN 61558-2-3: 2011 IEC 61558-2-3: 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-3: Particular requirements and tests for ignition transformers for gas and oil burners	
SEB	EN 61558-2-4: 2009 IEC 61558-2-4: 2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	
SEB	EN 61558-2-5: 2011 IEC 61558-2-5: 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-5: Particular requirements and tests for transformer for shavers, power supply units for shavers and shaver supply units	
SEB	EN 61558-2-6: 2010 IEC 61558-2-6: 2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 61558-2-7: 2008 IEC 61558-2-7: 2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-7: Particular requirements and tests for transformers and power supplies for toys	
SEB	EN 61558-2-8: 2011 IEC 61558-2-8: 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes	
SEB	EN 61558-2-9: 2011 IEC 61558-2-9: 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps for tungsten filament lamps	
SEB	EN 61558-2-13: 2009 IEC 61558-2-13: 2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers	
SEB	EN 61558-2-14: 2013 IEC 61558-2-14: 2012	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-14: Particular requirements and tests for variable transformers and power supply units incorporating variable transformers	
SEB	EN 61558-2-15: 2012 IEC 61558-2-15: 2011	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-15: Particular requirements and tests for isolating transformers for the supply of medical locations	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 61558-2-16:2010/ A1 IEC 61558-2-16: 2009/A1	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units	
SEB	EN 61558-2-19: 2001 IEC 61558-2-19: 2000	Safety of power transformers, power supply units and similar devices - Part 2-19: Particular requirements for perturbation attenuation transformers	
SEB	EN 61558-2-20: 2011 IEC 61558-2-20: 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20: Particular requirements and tests for small reactors	
SEB	EN 61558-2-23: 2011 IEC 61558-2-23: 2010	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites	
SEB	EN 62133: 2013 IEC 62133: 2012	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	
SEB	EN 62281: 2017 E EN 62281: 2018 EN 62281: 2013 IEC 62281: 2019 IEC 62281: 2016	Safety of primary and secondary lithium cells and batteries during transport	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SEB	EN 62368-1: 2014/AC: 2015 E EN 62368-1: 2017 VDE 0868-1:2016 IEC 62368-1:2014/cor. 2015, Ed. 2 IEC 62368-1: 2018 UL 62368-1: 2014 CAN/CSA-C22.2 NO. 62368-1-14 AS/NZS 62368.1:2018	Audio/video, information and communication technology equipment Safety – Requirements	
SEB	EN 62133-1: 2017 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 application – Part 1: Nickel systems	
Battery/ Safety	EN 62133-2: 2017 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 application – Part 2: Lithium systems	
Battery/ Safety	IEEE 1725: 2013	Rechargeable batteries for cellular telephones	
Battery/ Safety	IEEE 1625: 2014	Rechargeable batteries for multi-cell mobile computing devices	
Battery/ Safety	UN ST-SG-AC10-11 cl. 38.3 Revision 6	Recommendations on the TRANSPORT OF DANGEROUS GOODS Manual of Tests and Criteria ST-SG-AC10-11 Section 38.3 Lithium metal and lithium ion batteries	
Battery/ Safety	VDE-AR-E 2510-50	Stationäre Energiespeichersysteme mit Lithium-Batterien - Sicherheitsanforderungen	

Ausstellungsdatum: 10.07.2020

Gültig ab: 09.06.2020

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Battery/ Safety	EN 62619: 2017 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	
Battery/ Safety	UL 1642: 2012	Lithium Batteries	
Battery/ Safety	UL 2054: 2004	Household and commercial batteries	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Battery/ Safety	DIN EN 50604-1:2017	Lithium-Sekundärbatterien für Anwendungen in leichten Elektrofahrzeugen - Teil 1: Allgemeine Sicherheitsanforderungen und Prüfverfahren; Deutsche Fassung EN 50604-1 :2016 Secondary lithium batteries for light EV (electric vehicle) applications - Part 1: General safety requirements and test methods; German version EN 50604-1 :2016	
Nicht Flexibler Bereich **			
Battery/ Safety	Battery System program Revision 2.5: 2013	CTIA Certification Requirements for Battery System Compliance to IEEE 1725	
Safety	E EN62368-3: 2015 IEC 62368-3: 2017	Audio/Video, information and communication technology equipment – Part 3: Safety aspect for DC power transfer through communication cables and ports	
Battery/ Safety	Regelung 6. Anhang: 1 – Part 2; 3; 4 (4A – 4B); 5; 6 (Part 1 – Part 3); 8 (Appendix, 8A - 8I); 9 (9A - 9B) der UN ECE-R 136	Regelung Nr. 136 der Wirtschaftskommission der Vereinten Nationen für Europa (UN/ECE) – Einheitliche Bedingungen für die Genehmigung der Fahrzeuge der Kategorie L hinsichtlich der besonderen Anforderungen an den Elektroantrieb	

F SAR / EMF *

SAR/EMF*

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SAR/EMF	EN 50360:2017	Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz – 3 GHz)	

SAR/EMF*

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SAR/EMF	EN 50364:2018	Limitation of human exposure to electromagnetic field from devices operating in the frequency range 0 Hz to 10 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications	
SAR/EMF	EN 50383:2010	Basic standard for the calculation and measurement of electromagnetic field strength and SAR related to human exposure from radio base stations and fixed terminal stations for wireless telecommunication system (110 MHz – 40 GHz)	
SAR/EMF	EN 50385:2017	Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to the general exposure to radio frequency electromagnetic fields (110 MHz – 40 GHz)	
SAR/EMF	EN 50413:2009 +A1:2013 VDE 0848-1	Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz) In combination with: 26. BImSchV, 26. Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (Verordnung über elektromagnetische Felder), Bekanntmachung 14.08.2013	
SAR/EMF	EN 50566:2017	Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz)	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

SAR/EMF*

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SAR/EMF	EN 62 209-1:2016 IEC 62209-1:2016	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)	
SAR/EMF	EN 62 209-2:2010 IEC 62209-2:2019	... – Part 2: Procedure to determine the specific absorption rate (SAR) in the head and body for 30 MHz to 6 GHz hand-held and body-mounted devices used in close proximity to the body	
SAR/EMF	EN 62 311:2008 IEC 62 311:2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz)	
SAR/EMF	DIN EN 62369-1:2010-03	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	
SAR/EMF	EN 62 479:2010 IEC 62 479:2010	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)	
SAR/EMF	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz	

SAR/EMF*

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
SAR/EMF	IEEE C95.3-2002	IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave	
SAR/EMF	IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques	
SAR/EMF	EMR 2003	Radio Communications (Electromagnetic Radiation – Human Exposure) Standard 2003	
SAR/EMF	ARPANSA RPS No.3 - 2002	Radiation Protection Standard for Maximum Exposure Levels to Radiofrequency Fields – 3 kHz to 300 GHz	
SAR/EMF	EN 50663:2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10MHz - 300 GHz)	
SAR/EMF	EN 50665:2017	Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	
SAR/EMF	AS/NZS 2772.2:2016	Radiofrequency fields: Principles and methods of measurement and computation – 3 kHz to 300 GHz	

G Umwelt

*Umwelt **

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Umwelt	EN 60945: 2003 IEC 60945: 2002	Maritime navigation and radio communication equipment and Systems – General requirements – Methods of testing and required test results	
Umwelt	EN 60068-2-1: 2008 IEC 60068-2-1: 2007	Environmental testing – Part 2-1: Tests – Test A: Cold	
Umwelt	EN 60068-2-2: 2008 IEC 60068-2-2: 2007	Environmental testing – Part 2-2: Tests – Test B: Dry heat	
Umwelt	EN 60068-2-6: 2008 IEC 60068-2-6: 2007	Environmental testing – Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	
Umwelt	EN 60068-2-11: 2000 IEC 60068-2-11: 1981	Environmental testing – Part 2-11: Tests – Test Ka: Salt mist	
Umwelt	EN 60068-2-14: 2010 IEC 60068-2-14: 2009	Environmental testing – Part 2-14: Tests – Test N: Change of temperature	
Umwelt	EN 60068-2-27: 2010 IEC 60068-2-27: 2008	Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock	

Umwelt *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Umwelt	EN 60068-2-30: 2006 IEC 60068-2-30: 2005	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
Umwelt	EN 60068-2-38: 2010 IEC 60068-2-38: 2009	Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test	
Umwelt	EN 60068-2-47: 2006 IEC 60068-2-47: 2005	Environmental testing – Part 2-47: Tests - Mounting of specimens for vibration, impact and similar dynamic tests	
Umwelt	EN 60068-2-48: 2000 IEC 60068-2-48: 1982	Environmental testing – Part 2: Tests; guidance on the application of the tests of IEC 60068 to simulate the effects of storage	
Umwelt	EN 60068-2-52: 2017 IEC 60068-2-52: 2018	Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic	
Umwelt	EN 60068-2-64: 2018 IEC 60068-2-64: 2018	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	
Umwelt	EN 60068-2-78: 2014 IEC 60068-2-78: 2012	Environmental testing - Part 2-78: Tests; Test Cab: Damp heat, steady state	

Umwelt *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Umwelt	EN ISO 9227: 2012 DIN 9227: 2012	Corrosion tests in artificial atmospheres – Salt spray tests	
Umwelt	ASTM B 117:2018	Standard Practice for Operating Salt Spray (Fog) Apparatus	

H Smart Card Technology
H2 RF Schnittstelle für ID-Dokumente (e-Passport) *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
	BSI TR-03105 Part 2, Edition 3 (2016-11-04)	Test Plan for Official Electronic ID Documents with Secure Contactless Integrated Circuit	
	BSI TR-03105 Part 4, Edition 3 (2016-11-04)	Test Plan for ICAO-compliant Proximity Coupling Devices (PCD) on Layers 1-4	
	ISO/IEC 18745-2:2016, First edition (2016-08-15)	Information technology – Test methods for machine readable travel documents (MRTD) and associated devices – Part 2: Test methods for the contactless interface	
	CEN/TS 16794-2:2017, Second edition (July 2017)	Public transport – Communication between contactless readers and fare media – Part 2: Test plan for ISO/IEC 14443	
	ISO/IEC 10373-6:2016, Third edition (2016-07-15)	Identification cards – Test methods – Part 6: Proximity cards	
	BSI TR-03150 Part 1, v1.0 (2018-02-27)	Plan for Testing of Contactless Media for Conformance with CEN/TS 16794:2017	

H2 RF Schnittstelle für ID-Dokumente (e-Passport) *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
	BSI TR-03150 Part 2, v1.0 (2018-02-27)	Plan for Testing of Contactless Readers for Conformance with CEN/TS 16794:2017	

I Bluetooth®

*I Bluetooth® **

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Bluetooth	Low energy RF PHY	RF-PHY.TS/4.0/4.1/4.2	
Bluetooth	RF Specification	Specification 2.1/2.1+EDR/3.0/3.0 + HS/4.0/4.1/4.2	
Bluetooth	Profile Specification	PTS 6.4.0	

K Automotive

*Automotive **

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	ISO 11452-2 2nd edition:2004	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure.	

Automotive *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	ISO 11452-4 3rd edition:2005 Corr.1:2009	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4: Bulk current injection (BCI).	
EMV	ISO 11452-4 4th edition:2011	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4: Harness excitation methods	
EMV	ISO 11452-5 2nd edition:2002	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 5: Stripline.	
EMV	ISO 11452-8 2nd edition:2015	Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 8: Immunity to magnetic fields	
EMV	ISO 11452-9 1st edition:2012	Road vehicles - Component test methods for electrical disturbances from narrowband radiated Electromagnetic energy - Part 9: Portable Transmitters	
EMV	ISO 16750-2 4th edition:2012	Road vehicles – Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads	
EMV	ISO 10605 2008/ Amd.1:2014	Road vehicles – Electrical disturbances from electrostatic discharges.	

Automotive *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	ISO 7637-1 1st edition:1990 DIN 40 839-1:1992	Road vehicles – Electrical disturbance by conduction and coupling – Part 1: Passenger cars and light commercial vehicles with nominal 12-V supply voltage – Electrical transient conduction along supply lines only.	
EMV	ISO 7637-2 1st edition:1990 DIN 40 839-1:1992	Road vehicles – Electrical disturbance by conduction and coupling – Part 2: Commercial vehicles with nominal 24-V supply voltage – Electrical transient conduction along supply lines only.	
EMV	ISO 7637-2 2nd edition:2004 Amd1:2008 3rd edition:2011	Road vehicles – Electrical disturbance from conduction and coupling – Part 2: Electrical transient conduction along supply lines only.	
EMV	ISO 7637-3 1st edition:1995	Road vehicles – Electrical disturbance by conduction and coupling – Part 3: Vehicles with nominal 12-V or 24-V supply voltage – Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines.	
EMV	ISO 7637-3 2nd edition:2007	Road vehicles – Electrical disturbance from conduction and coupling – Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	

Automotive *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	ISO 14982 1st edition:1998 EN ISO 14982:2009	Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria	
EMV	EN 12895:2015 DIN EN 12895:	Industrial trucks – Electromagnetic compatibility	
EMV	EN 13309:2010 DIN EN 13309:2010	Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply	
EMV	EN 50498:2010 DIN EN 50498:2011	Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles; German version EN 50498:2010	
EMV	EN 55012 2007 /A1:2009 DIN EN 55012:2010 IEC/CISPR 12 6th edition:2007/ A1:2009 AS/NZS CISPR 12:2009	Vehicles, boats and internal combustion engine driven devices – Radio disturbance characteristics – Limits and methods of measurement for the protection of receivers except those installed in the vehicle/boat/device itself or in adjacent vehicles/boats/devices	
EMV	EN 55025:2008 DIN EN 55025:2009 IEC/CISPR 25 3rd edition:2008	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats and on devices – Limits and methods of measurement	
EMV	ISO 13766 2nd edition:2006	Earth-moving machinery – Electromagnetic compatibility	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Automotive *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
EMV	UN ECE-R 10, Rev.4 Supplement 2	Regelung Nr. 10– Einheitliche Bedingungen für die Genehmigung der Fahrzeuge hinsichtlich der elektromagnetischen Verträglichkeit Anhang 7, 8, 9, 10	
EMV	UN ECE-R 10, Rev.5	Regelung Nr. 10– Einheitliche Bedingungen für die Genehmigung der Fahrzeuge hinsichtlich der elektromagnetischen Verträglichkeit Anhang 7, 8, 9, 10, 17, 18, 19, 20, 21, 22	Anhang 17 u. 18: nur ≤16 A / Phase
EMV/ Battery	Regelung 6. Anhang 1 – Part 2; 3; 4 (4A – 4B); 5; 6 (Part 1 – Part 3); 8 (Appendix, 8A - 8I); 9 (9A - 9B) der UN ECE-R 100 Rev. 2 Änd.01, Änd.02, Änd.03	Regelung Nr. 100 der Wirtschaftskommission der Vereinten Nationen für Europa (UN/ECE) – Einheitliche Bedingungen für die Genehmigung der Fahrzeuge hinsichtlich der besonderen Anforderungen an den Elektroantrieb	
nicht Flexibler Bereich **			
EMV	Übersetzung der KN41: 2016-12	Car and internal combustion engine driven equipment electromagnetic compatibility test method	

O Akustik

Akustik *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Akustik	EN 50332-1 DIN EN 50332-1:2014	Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment";	
Akustik	DIN EN 50332-2:2014	Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Matching of sets with headphones if either or both are offered separately	
Akustik	EN 60118-0: 1993 +A1:1994 DIN EN 60118-0:1994 IEC 60118-0:2015	Hörgeräte; Teil 0: Messung der elektroakustischen Eigenschaften	
Akustik	EN 60118-1:1999 DIN EN 60118-1:1995+A1:1998 IEC 60118-1:1995+A1:1998	Hörgeräte - Teil 1: Hörgeräte mit Induktionsspuleneingang	
Akustik	EN 60118-2:1995 +A2:1997 DIN EN 60118-2:1998 IEC 60118-2:1983+A1:1993 +A2:1997	Hörgeräte - Teil 2: Hörgeräte mit automatischer Verstärkungsregelung	
Akustik	EN 60118-6:1999 DIN EN 60118-6:2000 IEC 60118-6:1999	Hörgeräte - Teil 6: Eigenschaften elektrischer Eingänge von Hörgeräten	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Akustik *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Akustik	EN 60118-7:2005 DIN EN 60118-7:2006 IEC 60118-7:2005	Akustik - Hörgeräte - Teil 7: Messung der Übertragungseigenschaften von Hörgeräten zum Zwecke der Qualitätssicherung in der Herstellung, Versorgung und Lieferung	
Akustik	DIN EN 60118-9:2019-03 - Entwurf	Elektroakustik – Hörgeräte – Teil 9: Verfahren zur Messung der Übertragungseigenschaften von Knochenleitungshörgeräten (IEC 29/989/CDV:2018); Deutsche und Englische Fassung prEN 60118-9:2018	
Akustik	IEC 60118-9:1985	Hearing aids - Part 9: Methods of measurement of characteristics of hearing aids with bone vibrator output	
Akustik	EN 60118-13:2011 DIN EN 60118-13:2012 IEC 60118-13:2016	Akustik - Hörgeräte - Teil 13: Elektromagnetische Verträglichkeit (EMV)	
Akustik	NSH 7.0 7th edition, 2007-03-01	Hearing Aids, requirements and guidelines	
Akustik	ETSI EG 202 518 V1.4.1: 2014-01	Speech Processing, Transmission and Quality Aspects (STQ); Acoustic Output of Terminal Equipment; Maximum Levels and Test Methodology for Various Applications	
Akustik	ETSI EN 300 175-8 V2.6.1: 2015-07	Radio Equipment and Systems (RES); Digital European Cordless Telecommunication (DECT); Common Interface (CI); Part 8: Speech coding and transmission	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Akustik *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Akustik	3GPP TS 26.131 V13.1.0: 2016-01	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Terminal acoustic characteristics for telephony; Requirements	
Akustik	3GPP TS 26.132 V13.1.0: 2016-01	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Speech and video telephony terminal acoustic test specification	
Akustik	IEEE C63.19:2011	Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids	
Akustik	CS-03 Part V Issue 09:2015-10	Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility	
Akustik	47 CFR Part 68.316:2016-03	Hearing aid compatibility: Technical requirements.	Medizin
Akustik	47 CFR Part 68.317:2016-03	Hearing aid compatibility volume control: technical standards	
Akustik	AS/ACIF S040:2001	Requirements for Customer Equipment for use with Standard Telephone Service – Features for special needs of persons with disabilities	
Akustik	AS/CA S004:2013	Voice performance requirements for Customer Equipment	

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

Akustik *

Fachbereich	Norm oder Prüfverfahren (Ausgabestand)	Titel der Norm oder des Prüfverfahrens	Prüfbereich /Einschränkung
Akustik	EN 60118-15:2012 IEC 60118-15:2012	Electroacoustics - Hearing aids - Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal	
Akustik	ANSI/ASA S3.22-2014	Specification of Hearing Aid Characteristics	
Nicht Flexibler Bereich **			
Akustik	TBR 10 Third Edition: 1999-07	Digital European Cordless Telecommunications (DECT); Telephony applications	
Akustik	TBR 38:1998-05	Attachment requirements for a terminal equipment incorporating an analogue handset function capable of supporting the justified case Service when connected to the analogue interface of the PSTN in Europe	