

IMST GmbH – Prüfzentrum / Testcenter – Extents / Flexibilisations

Status: 2023-10-05

Subject Area	Standard / Version	Title of the standard	Restriction / Limitations
EMC	DIN EN 61000-3-2: 2019-12, 2015-03, 2010-03	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	Measurements for single-phase devices (max.16A, AC)
EMC	DIN EN 61000-3-3: 2023-02, 2020-07 + Amd.1: 2021-07, 2020-07, 2014-03, 2009-06	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with a rated current ≤ 16 A per phase and not subject to special connection conditions	Measurements for single-phase devices (max.16A, AC)
EMC	DIN EN 61000-4-2: 2009-12	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Test of immunity to static electricity discharge	-
EMC	DIN EN 61000-4-3: 2021-11, 2013-04, 2010-11	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Testing of immunity to high-frequency electromagnetic fields	
EMC	DIN EN 61000-4-4: 2013-04, 2010-11	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Fast transient electrical noise/burst immunity testing	
EMC	DIN EN 61000-4-5:2019-03 + Cor.1:2021-04, 2019-03, 2015-03, 2007-06	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity testing	No measurements for balanced communication lines, no generator for pulses of the form 10/700 μ s, max. 16 A current;
EMC	DIN EN 61000-4-6: 2014-08, 2009-12	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances induced by radio-frequency fields	
EMC	DIN EN 61000-4-8: 2010-11	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques – Test of immunity to magnetic fields with energy technical frequencies	Magnetic field strengths up to 100 A/m for desktop and other small electrical appliances
EMC	DIN EN 61000-4-11: 2021-10, 2019-06, 2005-02	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Tests for immunity to voltage dips, short interruptions and voltage variations	
EMC	DIN EN 61000-6-1: 2019-11, 2007-10	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	
EMC	DIN EN 61000-6-2: 2019-11, 2006-03	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	
EMC	DIN EN 61000-6-3: 2022-06, 2011-09 + Cor.1: 2012-11	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission of equipment in residential environments	Only 3 m measuring distance;

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EMC	DIN EN 61000-6-4: 2020-09, 2011-09	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission requirements for industrial environments	Only 3 m measuring distance;
EMC	ETSI EN 301 489-1 V2.2.3 (2019-11), V2.2.1 (2017-02)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements;	Only 3 m measuring distance;
EMC	ETSI EN 301 489-3 V2.3.2 (2023-01), V2.1.1 (2019-03), V2.1.1 (FD 2017-03)	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;	Only 3 m measuring distance;
EMC	ETSI EN 301 489-17 V3.2.4 (2020-09), V3.1.1 (FD 2017-02)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	Only 3 m measuring distance;
EMC	DIN EN 50121-3-2: 2017-11 + A1: 2020-11, 2017-11, 2016-01, 2015-10	Railroad applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus	Without table 1, part 1.2
EMC	DIN EN 50121-4: 2017-11 + A1:2020-11, 2017-11, 2016-10, 2007-07	Railroad applications - Electromagnetic compatibility - Part 4: Emission and immunity of signalling and telecommunications apparatus	No magnetic field at 0 Hz, 300 A/m; Only 3 m measuring distance
EMC	DIN EN 50130-4: 2015-04, 2012-02	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire detection and fire alarm systems, intruder and hold-up detection systems, video surveillance systems, access control systems and nurse call systems;	Only 3 m measuring distance;
EMC	DIN EN 55011: 2022-05, 2018-05 + A11: 2021-03, 2018-05, 2017-03, 2011-04	Industrial, scientific and medical equipment - Radio disturbance characteristics - Limits and methods of measurement	Only 3 m measuring distance; No class 2 devices above 1 GHz
EMC	DIN EN 55012: 2010-04	Vehicles, boats and internal combustion engine driven equipment - Radio disturbance characteristics - Limits and methods of measurement for the protection of external receivers	Only ALSE / no free field; Only 3 m measuring distance; Only 2-/3-wheeled vehicles (no passenger cars)
EMC	DIN EN 55014-1: 2022-12, 2021-03, 2018-08 + 2021-03/A11, 2018-08, 2012-05, 2006 +	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Only 3 m measuring distance; No crackling interference measurement;

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	A1: 2009 + A2: 2011		
EMC	DIN EN 55014-2: 2022-10, 2016-01, 2009-06	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	Only 3 m measuring distance;
EMC	DIN EN 55024: 2016-05, 2011-09	Electromagnetic compatibility - Product family standard for elevators, escalators and moving walks - Immunity	No tests according to annexes A, H
EMV	DIN EN 55025: 2018-03	Vehicles, boats and internal combustion engine driven equipment - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	No vehicles; No high-voltage procedures; ALSE procedures only; Frequency range: 30 MHz – 6 GHz
EMC	DIN EN 55032: 2022-08, 2016-02 + Cor.1, 2016-02;	Electromagnetic compatibility of multimedia equipment and devices - Emission requirements	No evaluation of pixel errors or audio crackles; No measurements acc. to tables A.7.2-A7.4; No voltage measurement of symmetrically unshielded lines
EMC	DIN EN 60335-1: 2020-08	Household and similar electrical appliances - Safety - Part 1: General requirements	Tests acc. to 19.11.4.1 - 19.11.4.6 only
EMC	DIN EN 60335-1: 2020-08, 2012-10	Household and similar electrical appliances - Safety - Part 1: General requirements	Tests acc. to 19.11.4.1 - 19.11.4.6 only;
EMC	DIN EN 61326-1: 2022-11, 2013-07, 2006-10 + Cor.1: 2008-06 + Ber.2 :2011-04	Electrical equipment for measurement, control, and laboratory use - EMC requirements - Part 1: General requirements	Only 3 m measuring distance;
EMC	OIML R51-1:2006	Automatic catch-weighting instruments. Part 1: Metrological and technical requirements - Tests	Testing according A6.2.4 - A6.2.7, A6.3.1-A6.3.6.2 only
EMC	OIML R76-1:2006	Non-automatic weighting instruments Part 1: Metrological and technical requirements - Tests	Testing according A5.4 – A5.4.4, B3.1- B3.7.2 only
EMC	OIML 011:2013	General requirements for measuring instruments - Environmental conditions	Testing according 12.3: Table 23, 26, 27, 12.4: Table 28, 29, 13.1: below 100 A/m, 13.2: Table 31, 32, 33, 34 below 10 V/m, 13.3: Table 35, 14.2: Table 37, 38, 39, 40, 41 only
EMC	DIN EN 45501: 2016-03	Metrologische Aspekte der nichtselbsttätigen Waagen; Deutsche Fassung EN 45501: 2015	Testing according A5.4 – A5.4.4, B3.1- B3.7.2 only; Single phase systems only

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EMC	ISO 7637-2: 2011-03, 2004-06	Road vehicles - Electrical disturbances from conduction and coupling Part2: Electrical transient conduction along supply lines only	
EMC	ISO 7637-3: 2016-07, 2007-07	Road vehicles - Electrical disturbances from conduction and coupling Part3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	CCC Method only
EMC	ISO 11452-2: 2019-01	Road vehicles - Electrical disturbances by narrowband radiated electromagnetic energy - Test methods for components - Part 2: Anechoic chamber	Frequency range: 80 MHz – 6 GHz; No High-Voltage methods
EMC	CISPR-12: 2007-05 + A1: 2009, 2001 + A1: 2005	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	ALSE only; only 3m distance; E-Bikes / no vehicles
EMC	CISPR-25: 2021-12, 2002 + Cor.1: 2005	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	No vehicle tests; No High-Voltage-methods; only ALSE-methods; Frequency range: 30 MHz – 6 GHz
EMC	UN ECE R10, rev. 6, rev. 5	Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations; Addendum 9 – UN Regulation No. 10;	only parts A4, A5, A6 (E-Bikes); only parts A7, A8, A9, A10, part A9 only ALSE-method
SAR	DIN EN 50360: 2019-03	Produktnorm zum Nachweis der Übereinstimmung von schnurlosen Kommunikationsgeräten mit den Basisgrenzwerten und Expositionsgrenzwerten für die Exposition von Personen gegenüber elektromagnetischen Feldern im Frequenzbereich von 300 MHz bis 6 GHz: Geräte, die in enger Nachbarschaft zum Ohr benutzt werden	Calculation and Simulation methods only
SAR	IEC 62209-1: 2016-07	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)	Calculation and Simulation methods only
SAR	IEC 62209-2: 2010 + Cor.1: 2019	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)	Calculation and Simulation methods only

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SAR	IEC/IEEE 62209-1528: 2020-10	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-worn wireless communication devices - Human models, instrumentation and procedures (Frequency range of 4 MHz to 10 GHz)	Calculation and Simulation methods only
SAR	DIN EN 62232: 2019-08	Bestimmung der HF-Feldstärke, der Leistungsdichte und der spezifischen Absorptionsrate (SAR) in der Nachbarschaft von Funkkommunikations-Basisstationen zur Ermittlung der menschlichen Exposition	Basic calculation methods (B4.2-4.3);
SAR	DIN EN 62311: 2020-11	Bewertung von elektrischen und elektronischen Einrichtungen in Bezug auf Begrenzungen der Exposition von Personen in elektromagnetischen Feldern (0 Hz - 300 GHz)	Calculation and Simulation methods only
SAR	DIN EN 62479: 2011-09	Beurteilung der Übereinstimmung von elektronischen und elektrischen Geräten kleiner Leistung mit den Basisgrenzwerten für die Sicherheit von Personen in elektromagnetischen Feldern (10 MHz bis 300 GHz)	Calculation and Simulation methods only
SAR	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	Calculation and Simulation methods only
TC	ETSI EN 300 328 V2.2.2 (2019-07), V2.1.1 (2016-11), V1.9.1 (2015-01), V1.8.1	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TC	LoRaWAN 1.0.4, 1.0.2	End Device Certification Requirements for All Regions, Class A, B, C	
TC	LoRaWAN 1.0.4, 1.0.2 SCHC	End Device Certification Specification for SCHC Certification	