

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12166-01-00 according to ISO/IEC 17025:2017

Period of validity: 25.09.2019 to 22.09.2021 Date of issue: 25.09.2019

Holder of certificate:

TOKIN EMC Engineering Co., Ltd.
Osaka Testing Laboratory
49 Aza-Miyanowaki, Sakai SANDA-CITY,
HYOGO 669-1405, JAPAN

Tests in the fields:

Electromagnetic compatibility (EMC)

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 methods within the flexible scope of accreditation.

Department	Standard / Version	Title of standard or testing procedure	Reductions
Generic Standards*			
EMC	IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	
EMC	BS EN IEC 61000-6-1:2019	Electromagnetic compatibility (EMC). Generic standards. Immunity standard for residential, commercial and light-industrial environments	
EMC	IEC 61000-6-1:2005	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	
EMC	EN 61000-6-1:2007 BS 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)	
EMC	IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	
EMC	BS EN IEC 61000-6-2:2019	Electromagnetic compatibility (EMC). Generic standards. Immunity standard for industrial environments	
EMC	IEC 61000-6-2:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	
EMC	EN 61000-6-2:2005 BS EN 61000-6-2:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005)	
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	No FAR, TEM
EMC	EN 61000-6-3:2007 + A1:2011 BS EN 61000-6-3:2007 + A1:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010)	No FAR, TEM

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	No FAR, TEM
EMC	IEC 61000-6-4:2006 +A1:2010	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial	No FAR, TEM
EMC	EN 61000-6-4:2007 +A1:2011 BS EN 61000-6-4: 2007 + A1:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial (IEC 61000-6-4:2006 + A1:2010)	No FAR, TEM
Basic Standards*			
EMC	CISPR 16-1-4:2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary and test sites for radiated disturbance measurements	
EMC	CISPR 16-1-4:2010+A1:2012	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary and test sites for radiated disturbance measurements	
EMC	EN 55016-1-4:2019 BS EN 55016-1-4:2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary and test sites for radiated disturbance measurements (CISPR 16-1-4:2019)	
EMC	EN 55016-1-4:2010 +A1:2012 BS EN 55016-1-4:2010 +A1:2012	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary and test sites for radiated disturbance measurements (CISPR 16-1-4:2019)	
EMC	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test.	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	EN 61000-4-2:2009 BS EN 61000-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test. (IEC 61000-4-2:2008)	
EMC	IEC 61000-4-3:2006 +A1:2007+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 BS 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. (IEC 61000-4-3:2006 + A1:2007 + A2:2010)	
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 BS EN 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4- 4:Testing and measurement techniques - Electrical fast transient/burst immunity test. (IEC 61000-4-4:2012)	
EMC	IEC 61000-4-5:2014 + A1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques – Surge immunity test.	
EMC	IEC61000-4-5:2014	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques – Surge immunity test.	
EMC	EN 61000-4-5:2014 +A1:2017 BS EN 61000-4-5:2014 +A1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques – Surge immunity test. (IEC 61000-4-5:2014 + A1:2017)	
EMC	EN 61000-4-5:2014 BS EN 61000-4-5:2014	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques – Surge immunity test. (IEC 61000-4-5:2014 + A1:2017)	

Department	Standard / Version	Title of standard or testing procedure	Reductions
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 BS 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)	
EMC	IEC 61000-4-8:2009	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test.	No short duration method
EMC	EN 61000-4-8:2010 BS 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)	No short duration method
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.	Limited peak inrush current of 638 A for Single phase, 153 A for three phases
EMC	IEC 61000-4-11:2004	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests.	Limited peak inrush current of 638 A for Single phase, 153 A for three phases
EMC	EN 61000-4-11: 2004 + A1:2017 BS 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. (IEC 61000-4-11:2004 +A1:2017)	Limited peak inrush current of 638 A for Single phase, 153 A for three phases

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	EN 61000-4-11: 2004 BS EN 61000-4-11:2004	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)	Limited peak inrush current of 638 A for Single phase, 153 A for three phases
EMC	IEC 61000-4-28:1999 +Amd1:2001+Amd2:2009	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 BS 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 Product Standards			
EMC	IEC 61000-3-2:2018	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current \leq 16 A per phase)	
EMC	IEC 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current \leq 16 A per phase)	
EMC	EN IEC 61000-3-2:2019 BS EN IEC 61000-3-2:2019	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current \leq 16 A per phase)	
EMC	EN 61000-3-2:2014 BS EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current \leq 16 A per phase) (IEC 61000-3-2:2018)	
EMC	IEC 61000-3-3:2013 + A1:2017	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection.	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	IEC 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	EN 61000-3-3:2013 BS 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. (IEC 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	$I \leq 50$ A
EMC	IEC 61000-3-11:2000	Electromagnetic compatibility (EMC) - Part 3-11: Limits; Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems; Equipment with rated current ≤ 75 A and subject to conditional connection	$I \leq 50$ A
EMC	EN 61000-3-11:2000 BS 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	$I \leq 50$ A
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 BS 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	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	CISPR 11:2015 +A1:2016+A2:2019	Industrial, scientific and medical equipment – Radio- frequency disturbance characteristics – Limits and methods of measurement	No large photovoltaic power generating system
EMC	CISPR 11:2015	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement.	No large photovoltaic power generating system
EMC	EN 55011:2016 +A1:2017 BS EN 55011:2016+A1:2017	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement. (CISPR 11:2015 + A1:2016)	No large photovoltaic power generating system
EMC	EN 55011:2016 BS EN 55011:2016	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement. (CISPR 11:2015 + A1:2016)	No large photovoltaic power generating system
EMC	CISPR 13:2009 + A1:2015	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	Replayed by CISPR 32
EMC	EN 55013:2013 + A1:2016	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 13:2009, modified + AMD1:2015, modified)	Replace by BS EN 55032:2012
EMC	CISPR 14-1:2016	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission.	
EMC	CISPR 14-1:2005 + A1:2008 + A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	
EMC	EN 55014-1:2017 BS EN 55014-1:2017	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission. (CISPR 14-1:2016)	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	EN 55014-1:2006+A1:2009 +A2:2011 BS EN 55014-1:2006 +A1:2009+A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission. (CISPR 14-1:2005+ A1:2008 +A2:2011)	
EMC	CISPR 14-2:2015	Electromagnetic compatibility - Requirements for household appliances , electric tools and similar apparatus - Part 2: Immunity - Product family standard.	
EMC	EN 55014-2:2015 BS EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances , electric tools and similar apparatus - Part 2: Immunity - Product family standard. (CISPR 14-2:2015)	
EMC	CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EMC	CISPR 15:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.	
EMC	EN 55015:2013+A1:2015 BS EN 55015:2013 + A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment. (CISPR 15:2013 + IS1:2013 + IS2:2013)	
EMC	CISPR 22:2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.	
EMC	EN 55022:2010 BS EN 55022:2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement. (CISPR 22:2008, modified)	
EMC	CISPR 24:2010+A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement.	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	EN 55024:2010+A1:2015 BS EN 55024:2010 + A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement. (CISPR 24:2010 + Cor.:2011 + A1:2015)	
EMC	CISPR 32:2015 + Cor1:2016	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EMC	EN 55032:2015 + AC:2016 BS EN 55032:2015 + AC2016	Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2015 + Cor1:2016)	
EMC	CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements.	Excluding to xDSL communication equipment. For all frequencies in table 1.3 the required field strengths can be provided
EMC	EN 55035:2017 BS EN 55035:2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements. (CISPR 35:2016)	Excluding to xDSL communication equipment. For all frequencies in table 1.3 the required field strengths can be provided

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	EN 50130-4:2011/A1:2014 BS EN 50130-4:2011+A1:2014	Alarm systems. Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems	
EMC	IEC 60601-1-2:2014	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests.	
EMC	EN 60601-1-2:2015 BS EN 60601-1-2:2015	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests. (IEC 60601-1-2:2014)	
EMC	IEC 61131-2:2017	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests	No zone C
EMC	IEC 61131-2:2007	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests	No zone C
EMC	EN 61131-2:2007 BS EN 61131-2:2007	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007)	No zone C
EMC	IEC 61204-3:2016	Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC)	
EMC	IEC 61204-3:2000	Low-voltage power supplies, d. c. output - Part 3: Electromagnetic compatibility (EMC)	
EMC	EN 61204-3:2018 BS EN IEC 61204-3:2018	Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC)	
EMC	EN 61204-3:2000 BS EN 61204-3:2001	Low-voltage power supplies, d. c output - Part 3: Electromagnetic compatibility (EMC) (IEC 61204-3:2000)	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	IEC 61326-1:2012	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements.	
EMC	EN 61326-1:2013 BS EN 61326-1:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements. (IEC 61326-1:2012)	
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 BS 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)	
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 BS 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)	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	IEC 61326-2-6:2012	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment.	
EMC	EN 61326-2-6:2013 BS EN 61326-2-6:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment. (IEC 61326-2-6:2012)	
EMC	IEC62236-3-2:2018	Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus	Excluding to equipment with AC power outlet port for public use
EMC	IEC 62236-3-2:2008	Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus	
EMC	EN 50121-3-2:2016+A1:2019	Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus	Excluding to equipment with AC power outlet port for public use
EMC	EN 50121-3-2:2006	Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus	
EMC	IEC 61547:2009	Equipment for general lighting purposes - EMC immunity requirements	
EMC	EN 61547:2009 BS EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements	
EMC	IEC 60335-1:2010 + A1:2013 + A2:2016	Household and similar electrical appliances - Safety - Part 1:General requirements.	Only EMC
EMC	EN 60335-1:2012 + A13:2017 BS EN 60335-1:2012 + A13:2017	Household and similar electrical appliances - Safety - Part 1:General requirements	Only EMC

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	IEC 60335-2-102:2017	Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections.	Only EMC
EMC	EN 60335-2-102:2006 +A1:2010+A2:2016 BS EN 60335-2-102:2006 +A1:2010+A2:2016	Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections.	Only EMC
Radio Equipment Standards (with reference to EMC RED cl. 3.1b (EMC))*			
EMC	EN 301 489-1: V2.2.1 (2019-03)	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	EN 301 489-1: V2.2.0 2017	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	EN 301 489-3: V2.1.1 (2019-03)	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; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	EN 301 489-3: V2.1.1 2017	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.	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	EN 301 489-9: V2.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	EN 301 489-9: V2.1.1 2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU.	
EMC	EN 301 489-17: V3.2.0 (2017-03)	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	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	EN 300 386:V2.1.1 (2016-07)	Telecommunication network equipment; Electro Magnetic Compatibility(EMC) requirements; Harmonised Standard covering the essential requirements of the Directive 2014/30/EU	
EMC	EN 300 386-1:2012	Telecommunication network equipment; Electro Magnetic Compatibility(EMC) requirements; Harmonised Standard covering the essential requirements of the Directive 2014/30/EU	
EMF*			

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC/EMF	IEC 62233:2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure. (IEC 62233:2005, modified)	
EMC/EMF	EN 62233:2008 BS EN 62233:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure. (IEC 62233:2005, modified)	
EMC/EMF	IEC 62311:2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	
EMC/EMF	IEC62311:2007	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz).	
EMC/EMF	EN62311:2008 BS 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)	
Standards from foreign national standardization organizations*			
EMC	FCC Title 47: Telecommunication Part 15, Subpart B:2019	RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators Test in accordance to ANSI C 63.4-2014	No GTEM
EMC	FCC Title 47: Telecommunication Part 15, Subpart B:2018	RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators Test in accordance to ANSI C 63.4-2014	No GTEM
EMC	ANSI C63.4:2014 +A1:2017	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	No GTEM
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	No GTEM

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	AS CISPR 11:2017	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015+AMD1:2016 (ED.6.1) MOD)	
EMC	AS CISPR 11:2011	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement.	
EMC	AS CISPR 14.1:2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2016 (ED 6.0), MOD)	
EMC	AS/NZS CISPR14.1:2013	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	
EMC	AS/NZS CISPR 22:2009 +A1:2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EMC	AS/NZS CISPR 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements.	
EMC	AS/NZS 61000.3.2:2013	Electromagnetic Compatibility (EMC) Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	AS/NZS 61000.3.3:2012	Electromagnetic compatibility (EMC) 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 61000-3-3:2008 (ED 2.0), MOD)	
EMC	AS/NZS 61000.3.12:2013	Electromagnetic compatibility (EMC) - Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	AS/NZS 61000.3.11:2002 (R2013)	Electromagnetic compatibility (EMC) Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current less than or equal to 75 A and subject to conditional connection (IEC 61000-3-11:2000 (ED 1.0), MOD)	
EMC	AS/NZS 61000.6.1:2006 (R2016)	Electromagnetic compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2005 (ED 2.0), MOD)	
EMC	AS/NZS 61000.6.2:2006 (R2016)	Electromagnetic compatibility (EMC) General standards - Immunity for industrial environments (IEC 61000-6-2:2005 (ED 2.0), MOD)	
EMC	AS/NZS 61000.6.3:2012	Electromagnetic compatibility (EMC) Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006+A1:2010 (ED 2.1), MOD)	
EMC	AS/NZS 61000.6.4:2012	Electromagnetic compatibility (EMC) Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006+A1:2010 (ED 2.1), MOD)	
EMC	AS/NZS 60335.2.102:2018	Household and similar electrical appliances - Safety Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections (IEC 60335-2-102:2017 (ED 2.0), MOD)	Restriction to only clause 19.11.4
EMC	AS/NZS 60335.1:2011	Household and similar electrical appliances - Safety General requirements (IEC 60335-1:2010+A1:2013+A2:2016 (ED 5.0), MOD)	Restriction to only clause 19.11.4
EMC	CNS 13438:2006	Information technology equipment-Radio Disturbance characteristics – Limits and methods of measurement (identical to CISPR22:2005)	
EMC	CNS 13783-1:2013	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2005 + A1:2008 + A2:2011)	

Department	Standard / Version	Title of standard or testing procedure	Reductions
EMC	CNS 13803:2003	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement (CISPR 11: 1997)	
EMC	FCC Title 47: Telecommunication Part 18 Subpart C:2019	INDUSTRIAL, SCIENTIFIC, AND MEDICAL EQUIPMENT Part18, Subpart C – Technical Standards §18.311 Methods of measurement FCC MP-5:1986-02 FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment.	
EMC	Industrial, Scientific, and Medical Equipment (FCC Part 18) • Consumer ISM equipment:2018	FCC MP-5:1986-02 FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment.	
EMC	JIS T 0601-1-2:2018	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests, IEC 60601-1-2:2014	
EMC	JIS T 0601-1-2:2012	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests, IEC 60601-1-2:2001 + A1:2004	Without Clause 6
EMC	MIL-STD-285:1997	Attenuation Measurements For Enclosures, Electromagnetic Shielding, For Electronic Test Purposes, Method Of (24 October 1997)	
Standards which have newer editions available, but are still referenced in current product standards			
Generic standards			
	IEC 61000-6-1:2005	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments.	
	IEC 61000-6-2:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments.	

Department	Standard / Version	Title of standard or testing procedure	Reductions
Basic Standards			
	CISPR16-1-4:2010 + A1:2012	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary and test sites for radiated disturbance measurements	
	EN 55016-1-4:2010 + A1:2012 BS EN 55016-1-4:2010 + A1:2012	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary and test sites for radiated disturbance measurements (CISPR 16-1-4:2010 + A1:2012)	
	IEC 61000-4-4:2004 + A1:2010	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test.	
	EN 61000-4-4:2004 + A1:2010 BS EN 61000-4-4: 2004 + A1:2010	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2004 + Cor. 1:2006 + Cor. 2:2007 + A1:2010)	
	IEC 61000-4-5:2005	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
	EN 61000-4-5:2005 BS EN 61000-4-5:2005	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2005)	
	IEC 61000-4-6:2008	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
	EN 61000-4-6:2009 BS EN 61000-4-6:2009	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2008)	
	IEC 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current ≤ 16 A per phase)	

Department	Standard / Version	Title of standard or testing procedure	Reductions
	EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2014)	
	CISPR 11:2009 + A1:2010	Industrial, scientific and medical equipment - Radio- frequency disturbance characteristics - Limits and methods of measurement	
	EN 55011:2009 + A1:2010 BS EN 55011:2009 + A1:2010	Industrial, scientific and medical equipment - Radio- frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2009 + A1:2010)	
	CISPR 14-1:2005 + A1:2008 + A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission.	
	EN5014-1:2006 + A1:2009 + A2:2011 BS EN 55014-1:2006 + A1:2009 + A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission. (CISPR 14-1:2005 + A1:2008 + A2:2011)	
	CISPR 14-2:1997 + A1:2001 + A2:2008	Electromagnetic compatibility - Requirements for household appliances , electric tools and similar apparatus - Part 2: Immunity - Product family standard	
	EN 55014-2:1997 + A1:2001 + A2:2008 BS EN 55014-2:1997 + A1:2001 + A2:2008	Electromagnetic compatibility - Requirements for household appliances , electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:1997 + A1:2001 + A2:2008)	
	CISPR 32:2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	
	EN 55032:2012 + AC:2013 BS EN 55032:2012 + AC:2013	Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2012)	
	IEC 60601-1-2:2007	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	

Department	Standard / Version	Title of standard or testing procedure	Reductions
	EN 60601-1-2:2007 BS EN 60601-1-2:2007	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests (IEC 60601-1-2: 2007, modified)	
	IEC 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current \leq 16 A per phase)	
	EN 61000-3-2:2014 BS EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions. (equipment input current \leq 16 A per phase) (IEC 61000-3-2:2014)	
	IEC 61326-1:2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	
	EN 61326-1:2006 BS EN 61326-1:2006	Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements (IEC 61326-1:2005)	
	IEC 61326-2-1:2005	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	
	EN 61326-2-1:2006 BS EN 61326-2-1:2006	Electrical equipment for measurement, control and laboratory use. EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications (IEC 61326-2-1:2005)	
	IEC 61326-2-2:2005	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	

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	EN 61326-2-2:2006 BS EN 61326-2-2:2006	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 61326-2-2:2005)	
	IEC 61326-2-6:2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	
	EN 61326-2-6:2006 BS EN 61326-2-6:2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment (IEC 61326-2-6:2005)	
Radio Equipment Standards (with reference to EMC RED cl. 3.1b (EMC))			
	EN 301 489-1: v1.9.2 2011-09	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	
	EN 301 489-17: v2.2.1 2012-09	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems	
	EN 300 386-1:2012	Equipment Engineering (EE) – Telecommunication network equipment; Electromagnetic Compatibility (EMC) requirements; Part 1: Product family overview, compliance criteria and test levels.	
Standards from foreign national standardization organizations			
	AS/NZS CISPR 32:2013	Electromagnetic compatibility of multimedia equipment - Emission requirements	

Annex to the accreditation certificate D-PL-12166-01-00

Department	Standard / Version	Title of standard or testing procedure	Reductions
	ANSI C 63.4-2009	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	