

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17666-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 19.06.2020

Date of issue: 19.06.2020

Holder of certificate:

**Osram GmbH:
Marcel-Breuer-Straße 6, 80807 München**

Location:

**OSRAM GmbH
QM LAB
Parkring 33, 85748 Garching**

Tests in the fields:

Safety of electrical Appliances (SEB) and Electromagnetic compatibility (EMC)

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard testing methods listed here with different issue dates.

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

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

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

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Subject area	Standard / In-House Procedure/ Version	Title of the Standard or In-House Procedure	Testing area / restrictions
Product family standards			
SEB *	DIN EN 61347-1:2016 (EN 61347-1)	Lamp controlgear - Part 1: General and safety requirements (IEC 61347-1:2015); German version EN 61347-1:2015	Except: Resistance to corrosion mandrel test
SEB *	IEC 61347-1:2015	Lamp controlgear – Part 1: General and safety requirements	Except: Resistance to corrosion mandrel test
SEB *	IEC 61347-1:2015 + AMD1:2017	Lamp controlgear – Part 1: General and safety requirements	Except: Resistance to corrosion mandrel test
SEB *	DIN EN 61347-2-2:2012 (EN 61347-2-2)	Lamp controlgear - Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps (IEC 61347-2-2:2011); German version EN 61347-2-2:2012	
SEB *	IEC 61347-2-2:2011	Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps	
SEB *	DIN EN 61347-2-3:2017 (EN 61347-2-3)	Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps (IEC 61347-2-3:2011+ Cor.:2011 +	

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		A1:2016); German version EN 61347-2-3:2011 + AC:2011 + A1:2017 (IEC 61347-2-3:2011 + Cor.:2011 + A1:2016);	
SEB *	IEC 61347-2-3:2011 + AMD1:2016	Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	
SEB *	DIN EN 61347-2-11:2002 (EN 61347-2-11)	Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires (IEC 61347-2-11:2001); German version EN 61347-2-11:2001	
SEB *	IEC 61347-2-11:2001	Lamp controlgear Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires	
SEB *	IEC 61347-2-11:2001 + AMD1:2017	Lamp controlgear Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires	
SEB *	DIN EN 61347-2-12:2011 (EN 61347-2-12)	Lamp controlgear - Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps) (IEC 61347-2-12:2005 + A1:2010); German version EN 61347-2-12:2005 + A1:2010 + Cor. :2010	
SEB *	IEC 61347-2-12:2005 + AMD1:2010	Lamp controlgear – Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)	

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Subject area	Standard / In-House Procedure/ Version	Title of the Standard or In-House Procedure	Testing area / restrictions
SEB *	DIN EN 61347-2-13:2017 (EN 61347-2-13)	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (IEC 61347-2-13:2014 + A1:2016); German version EN 61347-2-13:2014 + A1:2017	
SEB *	IEC 61347-2-13:2014 + AMD1:2016	Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED Modules	
SEB *	DIN EN 62031:2015 (EN 62031)	LED modules for general lighting - Safety specifications (IEC 62031:2008 + A1:2012 + A2:2014); German version EN 62031:2008 + A1:2013 + A2:2015	
SEB *	IEC 62031:2008 + AMD 1:2012 + AMD 2:2014);	LED modules for general lighting – Safety specifications	
SEB *	IEC 62031:2018	LED modules for general lighting – Safety specifications	
SEB *	DIN EN 62442-2:2019 (EN 62442-2)	Energy performance of lamp controlgear - Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) - Method of measurement to determine the efficiency of controlgear (IEC 62442-2:2018); German version EN IEC 62442-2:2018 + AC:2018	
SEB *	IEC 62442-2:2018	Energy performance of lamp controlgear – Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) – Method of measurement to determine the efficiency of controlgear	

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Subject area	Standard / In-House Procedure/ Version	Title of the Standard or In-House Procedure	Testing area / restrictions
SEB *	DIN EN 62442-3:2019 (EN 62442-3)	Energy performance of lamp controlgear - Part 3: Controlgear for tungsten-halogen lamps and LED light sources - Method of measurement to determine the efficiency of controlgear (IEC 62442-3:2018); German version EN IEC 62442-3:2018	
SEB *	IEC 62442-3:2018	Energy performance of lamp controlgear – Part 3: Controlgear for tungsten-halogen lamps and LED light sources – Method of measurement to determine the efficiency of controlgear	

Standards or in-house procedures that do not fall under the flexibility of the accreditation area.

Subject area	Standard / In-House Procedure/ Version	Title of the Standard or In-House Procedure	Testing area / restrictions
Basic standards			
EMC	DIN EN 61000-4-2:2009 (EN 61000-4-2)	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2008); German version EN 61000-4-2:2009	
EMC	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	
EMC	DIN EN 61000-4-4:2005 (EN 61000-4-4)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst	

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		immunity test (IEC 61000-4-4:2004); German version EN 61000-4-4:2004	
EMC	IEC 61000-4-4:2004	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	DIN EN 61000-4-4:2013 (EN 61000-4-4)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012); German version EN 61000-4-4:2012	
EMC	IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	DIN EN 61000-4-5:2007 (EN 61000-4-4)	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2005); German version EN 61000-4-5:2006	
EMC	IEC 61000-4-5:2005	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	
EMC	DIN EN 61000-4-5:2019 (EN 61000-4-5)	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014 + A1:2017); German version EN 61000-4-5:2014 + A1:2017	
EMC	IEC 61000-4-5:2014 + AMD1:2017	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	

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EMC	DIN EN 61000-4-6:2009 (EN 61000-4-6)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2008); German version EN 61000-4-6:2009	
EMC	IEC 61000-4-6:2008	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	DIN EN 61000-4-6:2014 (EN 61000-4-6)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013); German version EN 61000-4-6:2014	
EMC	IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	DIN EN 61000-4-11:2005 (EN 61000-4-11)	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004); German version EN 61000-4-11:2004	Limited to cl. 5.8 from DIN EN 61547:2010 / IEC 61547:2009 and cl. 9.7 from ETSI EN 301 489-1 V1.9.2, V2.1.1, V2.2.0, V2.2.1, V2.2.3 and limited to 500 W
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 to cl. 5.8 from DIN EN 61547:2010 / IEC 61547:2009 and cl. 9.7 from ETSI EN 301 489-1

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			V1.9.2, V2.1.1, V2.2.0, V2.2.1, V2.2.3 and limited to 500 W
EMC	DIN EN 61000-4-11:2019 (EN 61000-4-11)	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004 + A1:2017); German version EN 61000-4-11:2004 + A1:2017	Limited to cl. 5.8 from DIN EN 61547:2010 / IEC 61547:2009 and cl. 9.7 from ETSI EN 301 489-1 V1.9.2, V2.1.1, V2.2.0, V2.2.1, V2.2.3 and limited to 500 W
EMC	IEC 61000-4-11:2004 + AMD1:2017	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests	Limited to cl. 5.8 from DIN EN 61547:2010 / IEC 61547:2009 and cl. 9.7 from ETSI EN 301 489-1 V1.9.2, V2.1.1, V2.2.0, V2.2.1, V2.2.3 and limited to 500 W
Product family standards			
EMC	DIN EN 55015:2014; (EN 55015)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013 + IS1:2013 + IS2:2013); German version EN 55015:2013	Radiated emissions > 30 MHz only according to Annex B
EMC	CISPR 15:2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	Radiated emissions > 30 MHz only according to Annex B
EMC	DIN EN 55015:2016; (EN 55015)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013 + IS1:2013 + IS2:2013 +	Radiated emissions > 30 MHz only according to

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		A1:2015); German version EN 55015:2013 + A1:2015	Annex B
EMC	CISPR 15:2013 + AMD1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	Radiated emissions > 30 MHz only according to Annex B
EMC	CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	Except: Radiated emissions cl. 9.3.4.1 & cl. 9.3.4.2 & cl. 9.3.4.3
EMC	DIN EN 61547:2010; (EN 61547)	Equipment for general lighting purposes - EMC immunity requirements (IEC 61547:2009); German version EN 61547:2009	Except: cl. 5.3, cl. 5.4
EMC	IEC 61547:2009	Equipment for general lighting purposes - EMC immunity requirements	Except: cl. 5.3, cl. 5.4
EMC	DIN EN 61000-3-2:2015 (EN 61000-3-2)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2014); German version EN 61000-3-2:2014	
EMC	IEC 61000-3-2:2014	Electromagnetic compatibility (EMC) – Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	DIN EN IEC 61000-3-2:2019 (EN 61000-3-2)	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2018); German version EN IEC 61000-3-2:2019	

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EMC	IEC 61000-3-2:2018	Electromagnetic compatibility (EMC) – Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	DIN EN 61000-3-3:2014 (EN 61000-3-3)	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013); German version EN 61000-3-3:2013	
EMC	IEC 61000-3-3:2013	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	IEC 61000-3-3:2013 + AMD1:2017	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 ≤ 16 A per phase and not subject to conditional connection	
EMC (radio equipment)	ETSI EN 301 489-1 V1.9.2 (2011-09)	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	Only Clause 8.3 to 8.7
EMC (radio)	ETSI EN 301 489-1 V2.1.1 (2017-02)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services;	Only Clause 8.3 to 8.7

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equipment)		Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	
EMC (radio equipment)	Draft ETSI EN 301 489-1 V2.2.0 (2017-03)	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	Only Clause 8.3 to 8.7
EMC (radio equipment)	Draft ETSI 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	Only Clause 8.3 to 8.7
EMC (radio equipment)	ETSI EN 301 489-1 V2.2.3 (2019-11)	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	Only Clause 8.3 to 8.7
EMC (radio equipment)	ETSI 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	Only Clause 8.3 to 8.7 from ETSI EN 301 489-1 V1.9.2, V2.1.1, V2.2.0, V2.2.1, V2.2.3

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EMC (radio equipment)	ETSI EN 301 489-17 V2.2.1 (2012-09)	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	Only Clause 8.3 to 8.7 from ETSI EN 301 489-1 V1.9.2, V2.1.1, V2.2.0, V2.2.3
EMC (radio equipment)	ETSI EN 301 489-17 V3.1.1 (2017-02)	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	Only Clause 8.3 to 8.7 from ETSI EN 301 489-1 V1.9.2, V2.1.1, V2.2.0, V2.2.3
EMC (radio equipment)	Draft ETSI 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	Only Clause 8.3 to 8.7 from ETSI EN 301 489-1 V1.9.2, V2.1.1, V2.2.0, V2.2.3

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