



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 09.0033	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 16	Issue 15 (2018-08-13)
Date of Issue:	2023-10-20		Issue 14 (2018-04-11)
Applicant:	Cooper Crouse-Hinds GmbH Neuer Weg-Nord 49 69412 Eberbach Germany		Issue 13 (2017-11-13)
Equipment:	Fluorescent lighting fixture type eLL * ** *** / ** *		Issue 12 (2017-04-25)
Optional accessory:			Issue 11 (2016-09-16)
Type of Protection:	Flameproof Enclosures "d", Intrinsic Safety "i", Protection by Encapsulation "m", Optical Radiation, Protection by Enclosure "t", Increased Safety "e"		Issue 10 (2015-12-17)
Marking:	See Annex		Issue 9 (2015-08-20)
			Issue 8 (2014-10-29)
			Issue 7 (2014-09-10)
			Issue 6 (2013-07-04)

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

**Senior Lead Auditor, Certification Manager and officially
recognised expert**

Signature:
(for printed version)

Date:
(for printed version)

2023-10-20

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DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Manufacturing locations: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Cooper Crouse Hinds SA
Avda, Santa Eulalia, 290
08223 Terrassa (Barcelona)
Spain

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-18:2014](#) Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR09.0031/16](#)

Quality Assessment Report:

[DE/BVS/QAR11.0009/14](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and type

See Annex

Description

See Annex

Parameters:

See Annex

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Expansion by an additional manufacturer location: Cooper Crouse Hinds SA, 08223 Terassa (Barcelona), Spain.

Remove additional manufacturer location: S.C. Cooper Industries Romania S.R.L., Romania

Annex:

[BVS_09_0033_Cooper_Annex_issue16.pdf](#)



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Marking

Ex db eb IIC T4 Gb (type without option; ZB; ZB KK;
DCA; DCA KK; KK)
Ex db eb mb ib IIC T4 Gb (type NIB; V-CG-S; V-CG-S KK; NE)
Ex db eb mb ib op is IIC T4 Gb (type LED NIB; LED NE;
LED HT NIB; LED HT NE;
LED V-CG-S; LED V-CG-S KK)
Ex db eb mb op is IIC T4 Gb (type LED; LED KK; LED DCA;
LED DCA KK; LED HT;
LED HT KK)
Ex tb IIIC T80°C Db

Subject and type

Fluorescent lighting fixture type eLL *1) **2) ***3)/**4) *5)

- | | | |
|----|----------------------|--|
| 1) | K | : Plastic enclosure |
| | M | : Pole mounted light with plastic enclosure |
| | S | : Stainless steel enclosure |
| 2) | 08 | : Type coding of stainless steel luminaire |
| | 92 | : Type coding of plastic luminaire |
| 3) | 0.. | : Bi-pin lamp cap type G13 |
| | 3.. | : One-pin lamp cap type FA6 |
| | 18 | : 18 W – 1 st fluorescent lamp |
| | 36 | : 36 W – 1 st fluorescent lamp |
| | 36-1 | : 32 W – 1 st fluorescent lamp (only without feedthrough wiring) |
| | 58 | : 58 W – 1 st fluorescent lamp |
| | LED | : Version with LED-modules |
| 4) | 18 | : 18 W – 2 nd fluorescent lamp |
| | 36 | : 36 W – 2 nd fluorescent lamp |
| | 36-1 | : 32 W – 2 nd fluorescent lamp (only without feedthrough wiring) |
| | 58 | : 58 W – 2 nd fluorescent lamp |
| | 400 | : With LED-module 2x15 W |
| | 400-1 | : With LED-module 1x13 W |
| | 800 | : With LED-module 2x26 W |
| | 400HT | : With LED-module 2x12 W |
| | 800HT | : With LED-module 2x21 W |
| | 400A | : With LED Retrofit module 2x13W (ELLK – 2 - *) |
| | 800A | : With LED Retrofit module 2x26W (ELLK – 4 - *) |
| 5) | None ¹⁾ | : Standard |
| | ZB ¹⁾ | : Suitable for emergency power supply (central battery) |
| | V-CG-S ¹⁾ | : With monitoring module |
| | NIB | : Intelligent single battery system |
| | DCA ¹⁾ | : DC – Disconnection |
| | NE | : Emergency light version with VE12 218, VE12 236, VE12 236-1,
VE 12 400, VE 12 800, VE 12 400HT or VE 12 800HT |
| | ¹⁾ KK | : With one- or both side mounted battery box eB* ** *** in use as a
terminal box |



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Description

The fluorescent lighting fixture type eLL* ** ***/ ** * is an explosion-protected electrical apparatus that accommodates single or twin fluorescent luminaires with either lamp cap FA6 (one-pin) or lamp cap G13 (Bi-pin).

Only separately certified EVGs, one single, one double or two single, are used as electronic ballast, such as: EVG09... (IECEX BVS 10.0013U). The Emergency-luminaire variants are used with VE/EVG05 (IECEX BVS 10.0034 U), e.g. VE97... (IECEX BVS 10.0034U), or VE12 218, VE12 236 or VE12 236-1 (IECEX BVS 10.0034U), VE12 400, VE12 400HT, VE12 800 or VE12 800HT (IECEX BVS 10.0034U).

The luminaires may be replaced inside the potentially explosive atmosphere if the fluorescent lighting fixture is equipped with a separately certified light switch (IECEX BVS 12.0054U) which disconnects the light at all poles or if the voltage of the lighting fixture is set to zero before changing the luminaire. The variant without a light switch contains a relevant warning on the outside of the enclosure.

The lighting fixtures that are equipped with a luminaire size T12 (38 mm diameter) are exclusively used with mechanical protection.

The enclosure of the fixture consists of either glass-mat reinforced polyester or of stainless steel; the light-permitting diffuser is made of polycarbonate.

The lighting fixture type eLL* ** ***/** ZB is intended to be connected to a central battery system or emergency power supply. If the light operates on twin luminaires, each luminaire is supplied by a separate circuit via its own electronic ballast.

The lighting fixture type eLL* ** ***/** NIB is provided with an emergency light device which consists of one or two separately certified EVG09... in conjunction with the supply unit VE97..., and / or the power supply / emergency light unit VE/EVG05..., as well as a battery box type eBK02 NIB or eBS09 NIB (IECEX BVS 11.0003X).

Optionally the luminaires are usable with a reducing bolt M25 - M20 type 2 2462 900 010.

The luminaire can be equipped with separately certified LED modules (IECEX BVS 13.0030U). Those modules can also be used as an exchange light source for luminaires if these are equipped with supply unit VE/EVG05..., VE97... or VE12... or electronic ballast EVG09.

The luminaire types with LED-modules can be equipped with electronic ballasts EVG09 400HT or EVG09 800HT (IECEX BVS 10.0013U) for an extended ambient temperature range.

The luminaire type eLL* ** ***/** V-CG-S with separately certified emergency control unit (IECEX BVS 15.0064U) will be added.

The luminaire type eLL* ** LED 400HT/** NIB or eLL* ** LED 800HT/** NIB can be equipped with an emergency unit, which consists of one or two separately certified EVG09... with the supply unit VE97..., or the electronic ballast and emergency unit VE/EVG05... and battery box type eBK02 NIB or eBS09 NIB (IECEX BVS 11.0003X).

The luminaire type eLL* ** ***/** NE is equipped with emergency control unit consists of a supply unit VE12 218, VE12 236 or VE12 236-1 (IECEX BVS 10.0034U) and the battery box eBK12 NE or eBS12 NE (IECEX BVS 11.0003X) with luminaire switch type GHG 883 00001 R (IECEX BVS 12.0054U).

The luminaire type eLL* ** 036/36 NE with 120 V AC version and through wiring can be used for an ambient temperature up to +40 °C.

Additional, the luminaire type eLL* ** LED 400 NE can be used with emergency control unit consists of a supply unit VE12 400 (IECEX BVS 10.0034U), type eLL* ** LED 800 NE can be used with emergency control unit consists of a supply unit VE12 800 (IECEX BVS 10.0034U).

Alternatively, the luminaire type eLL* ** LED 400-1 can be used with only one LED module strip and the type eLL* ** LED 400 or eLL* ** LED 800 can be equipped with high-gloss reflector.



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The luminaire type eLL * ** LED 400HT NE and type eLL * ** LED 800HT NE can be used for an ambient temperature up to +55 °C. Additional, the luminaire type eLL * ** LED 400HT NE can be used with emergency control unit which consists of a supply unit VE12 400HT, type eLL * ** LED 800HT NE can be used with emergency control unit which consists of a supply unit VE12 800HT. In this version the VE12 400 or VE12 800 (IECEX BVS 10.0034U) will be used with reduced output current.

The luminaire can be equipped with separately certified LED modules (CML 17 ATEX 3243 U / IECEx CML 17.0137U). Those modules can also be used as an exchange light source for luminaires if these are equipped with supply unit VE/EVG05..., VE97... or VE12... or electronic ballast EVG09.

The luminaire type eLL * ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** ** in use of a terminal box.

The cover of the connection box of the luminaire type eLLM * ** ***/** * can be built from an alternative material.

Listing of all components used

Subject and type	Certificate
Electronic ballast EVG09...	IECEX BVS 10.0013U
Lamp holder FA6	IECEX BVS 17.0026U
Ballast VE/EVG05, VE97..., VE12 218, VE12 236, VE12 236-1, VE12 400, VE12 800, VE12 400HT or VE12 800HT	IECEX BVS 10.0034U
LED-Module	IECEX BVS 13.0030U
LED Retrofit Module	IECEX CML 17.0137U
Terminal 2410	IECEX BVS 13.0088U
Luminaire switch Type GHG 883 00001 R	IECEX BVS 12.0054U
Terminal block Type 262-85	IECEX PTB 04.0004U

Listing of components used referring to older standards:

Subject and type	Certificate	Standards
Lamp holder FA6	IECEX PTB 08.0045U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2007 Ed. 6 ¹⁾ IEC 60079-7:2006 Ed. 4 ¹⁾
Lamp holder G13	IECEX BVS 15.0109U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2006 Ed. 4 ¹⁾
Emergency control unit V-CG-S	IECEX BVS 15.0064U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2006 Ed. 4 ¹⁾ IEC 60079-11:2011 Ed. 6 IEC 60079-18:2009 Ed. 3 ¹⁾

¹⁾ No applicable technical differences



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Parameters:

Electrical data

One-pin lamp cap type FA6

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL * ** 318	1x EVG09 118	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 318/18	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 318/18 NE	1 x VE12 218 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 336	1x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 336/36	1x EVG09 236 resp. 2x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 336/36 NE	1 x VE12 236 + Battery boxes eBK12 NE resp. eBS12 NE	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 336/36 NE	1 x VE12 236-1 + Battery boxes eBK 12 NE resp. eBS12 NE	120 V AC	50 Hz – 60 Hz
eLL * ** 358	1x EVG 09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 358/58	1x EVG09 258 resp. 2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 336/36 ZB	2x EVG09 136	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 358/58 ZB	2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 318/18 NIB	1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 318/18 NIB	1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127V AC	50 Hz – 60 Hz
eLL * ** 336 NIB	1x VE97236 + 1x EVG09 136 + Battery boxes eBK 02 NIB resp. eBS 09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 336 NIB	1x VE97 236-1 + 1x EVG09 136 + Battery boxes eBK 02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** 336/36 NIB	1x VE97 236 +1x EVG09 236 + Battery boxes eBK 02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 336/36 NIB	1x VE97 236-1 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz



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Bi-pin lamp cap type G13

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL * ** 018 ¹⁾	1x EVG09 118	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 018/18 ¹⁾	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 036 ¹⁾	1x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 036/36 ¹⁾	1x EVG09 236 resp. 2x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 058 ¹⁾	1x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 058/58 ¹⁾	1x EVG09 258 resp. 2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 036/36 ZB ¹⁾	2x EVG09 136	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 058/58 ZB ¹⁾	2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 018/18 NIB	1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 018/18 NIB	1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS 09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** 018/18 NE	1 x VE12 218 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 036/36 NE	1 x VE12 236 + Battery boxes eBK12 NE resp. eBS12 NE	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 036/36 NE	1 x VE12 236-1 + Battery boxes eBK12 NE resp. eBS12 NE	120 V AC	50 Hz – 60 Hz
eLL * ** 036 NIB	1x VE97 236 + 1x EVG09 136 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 036 NIB	1x VE97 236-1 + 1x EVG09 136 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** 036/36 NIB	1x VE97 236 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz



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Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** 036/36 NIB	1x VE97 236-1 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL* ** 018/18 DCA ¹⁾	1x EVG09 218 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 036/36 DCA ¹⁾	1x EVG09 236 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 018/18 V-CG-S ¹⁾	1x EVG09 218 + V-CG-S Modul	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 036/36 V-CG-S ¹⁾	1x EVG09 236 + V-CG-S Modul	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 058/58 V-CG-S ¹⁾	1x EVG09 258 + V-CG-S Modul	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz

¹⁾ The luminaire type eLL* ** */** KK is equipped with one- or both side mounted battery box eB* ** * in use of a terminal box.

LED module

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** LED 400 ¹⁾	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** LED 800 ¹⁾	1x EVG09 236	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** LED 800 ZB ¹⁾	2x EVG09 136	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** LED 400 NIB	1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** LED 400 NIB	1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127V AC	50 Hz – 60 Hz
eLL* ** LED 800 NIB	1x VE97 236 + 1x EVG09 136 resp. EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** LED 800 NIB	1x VE97 236-1 + 1x EVG09 136 resp. EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL* ** LED 400 NE	1 x VE12 400 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL* ** LED 800 NE	1 x VE12 800 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz



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Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL * ** LED 400 DCA ¹⁾	1x EVG09 218 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800 DCA ¹⁾	1x EVG09 236 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400HT * ¹⁾	EVG09 400HT	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800HT * ¹⁾	EVG09 800HT	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400 V-CG-S ¹⁾	1x EVG09 218 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400-1 V-CG-S ¹⁾	1 x EVG 09 218 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400-1 ¹⁾	1 x EVG 09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800 V-CG-S ¹⁾	1x EVG09 236 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400HT V-CG-S ¹⁾	1x EVG09 400HT + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800HT V-CG-S ¹⁾	1x EVG09 800HT + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800HT NIB	1x EVG09 800HT + VE97 236 + eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 800HT NIB	1x EVG09 800HT + VE97 236-1 + eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** LED 400HT NE	1x VE12 400HT + eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 – 60 Hz
eLL * ** LED 800HT NE	1x VE12 800HT + eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 – 60 Hz
eLL * ** LED 400A * ¹⁾	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800A * ¹⁾	1x EVG09 236	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400A NE	1 x VE12 400 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 800A NE	1 x VE12 800 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 400A DCA ¹⁾	1x EVG09 218 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800A DCA ¹⁾	1x EVG09 236 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz



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Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL * ** LED 400A V-CG-S ¹⁾	1x EVG09 218 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800A V-CG-S ¹⁾	1x EVG09 236 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz

¹⁾ The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** ** in use of a terminal box.

Thermal data

Type eLL * ** ***/** *¹⁾

Ambient temperature range if $U < 220 \text{ V}$

$-25 \text{ °C} \leq T_a \leq +50 \text{ °C}$

Ambient temperature range if $U \geq 220 \text{ V}$

$-25 \text{ °C} \leq T_a \leq +55 \text{ °C}$

Type eLL * ** *18/18 NIB

Type eLL * ** *18/18 V-CG-S¹⁾

Type eLL * ** *36/36 V-CG-S¹⁾

Type eLL * ** LED ***HT V-CG-S¹⁾

Type eLL * ** LED ***A V-CG-S¹⁾

Type eLL * ** LED ***A *¹⁾ (with diffusor)

Type eLL * ** LED ***A NE (with diffusor)

Ambient temperature range

$-25 \text{ °C} \leq T_a \leq +50 \text{ °C}$

Type eLL * ** *36/36 NIB

Type eLL * ** *18/18 NE

Type eLL * ** *36/36 NE (220 V - 254 V AC with through-wiring)

Type eLL * ** *36/36 NE (120 V AC without through-wiring)

Type eLL * ** *36/36 ZB¹⁾

Type eLL * ** *58/58 ZB¹⁾

Type eLL * ** LED ***HT¹⁾

Type eLL * ** LED 800HT NIB

Type eLL * ** LED ***HT NE

Type eLL * ** LED ***A *¹⁾

Type eLL * ** LED ***A NE

Ambient temperature range

$-25 \text{ °C} \leq T_a \leq +55 \text{ °C}$

Type eLL * ** *36/36 NE (120 V AC with through-wiring)

Type eLL * ** *58/58¹⁾

Type eLL * ** *58/58 V-CG-S¹⁾

Ambient temperature range

$-25 \text{ °C} \leq T_a \leq +40 \text{ °C}$

Type eLL * ** LED *** *¹⁾

Type eLL * ** LED *** V-CG-S¹⁾

Type eLL * ** LED 400-1 V-CG-S¹⁾

Type eLL * ** LED 400-1¹⁾

Type eLL * ** LED *** NE (120 V - 254 V AC)

Ambient temperature range

$-25 \text{ °C} \leq T_a \leq +45 \text{ °C}$

¹⁾ The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** ** in use of a terminal box