

# CERTIFICATE

Issued to:  
 Applicant:  
**Helvar Components Oy Ab**  
**Yrittajantie 23**  
**03600 Karkkila, Finland**

Licensee:  
**Helvar Components Oy Ab**  
**Yrittajantie 23**  
**03600 Karkkila, Finland**

Product : LED controlgear  
 Trade name(s) : Helvar Components  
 Type(s)/model(s) : LC35SE-DA-350-850, LC35SE-DA-350-850-LOOP, LC45SE-DA-600-1050, LC45SE-DA-600-1050-LOOP and LC51SE-DA-900-1400-LOOP

The product and any acceptable variation thereof as specified in the Annex to this certificate and the documents referred to therein.

DEKRA hereby declares that the above-mentioned product has been certified based on:

- a type test according to EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 4351636

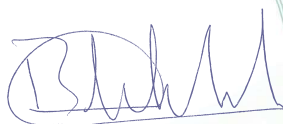
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 12 August 2025 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-162598

DEKRA Certification B.V.



B.T.M. Holtus  
 Managing Director



Susan Lehner  
 Certification Manager

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ACCREDITED BY THE  
 DUTCH ACCREDITATION  
 COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: LED controlgear
Trade name(s)	: Helvar Components
Type(s)/model(s)	: LC35SE-DA-350-850, LC35SE-DA-350-850-LOOP, LC45SE-DA-600-1050, LC45SE-DA-600-1050-LOOP and LC51SE-DA-900-1400-LOOP
Rated voltage	: 220-240AC/DC
Class	: class I
Degree of protection	: IP20
Description	: SELV, constant current output, non-inherently short circuit proof

**Product data – type LC35SE-DA-350-850**

Ratings	: 110 °C thermal protection
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**Product data – type LC35SE-DA-350-850-LOOP, LC45SE-DA-600-1050, LC45SE-DA-600-1050-LOOP and LC51SE-DA-900-1400-LOOP**

Ratings	: 130 °C thermal protection
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**TESTS****Test requirements**

EN 61347-1:2015  
EN 61347-1:2015/A1:2021  
EN 61347-2-13:2014  
EN 61347-2-13:2014/A1:2017  
EN IEC 62384:2020

**Test result**

The test results are documented in DEKRA test file 4937226.50,4937226.51.

**Additional information**

This certificate replaces certificate No. 35-146616 which we hereby declare invalid.

The list of components is laid down in test report 4937226.50.

**Conclusion**

The examination has confirmed that all requirements were met.

**Factory locations**

Helvar Components Oy Ab  
Yrittajantie 23  
03600 Karkkila, Finland

Trade name(s) : Helvar Components stands for

**Helvar**  
Components

model list:

Model No.	Input			Output				I <sub>set</sub>	ta (°C)	tc (°C)
	Voltage (V)	Current (A)	PF	Current (mA)	Voltage (Vdc)	No load voltage (Vdc)	Power (W)			
LC35SE-DA-350-850	220-240 VAC / VDC	0,10-0,21	0,82c	350	25-54	60	18,9	R=∞Ω	-25-45	80
			0,96	850	25-42		35,7	R=0Ω		
LC35SE-DA-350-850-LOOP	220-240 VAC / VDC	0,10-0,21	0,82c	350	25-54	60	18,9	R=∞Ω	-25-45	80
			0,96	850	25-42		35,7	R=0Ω		
LC45SE-DA-600-1050	220-240 VAC / VDC	0,19-0,26	0,87c	600	25-54	60	32,4	R=∞Ω	-25-45	85
			0,97	1050	25-42,8		45	R=0Ω		
LC45SE-DA-600-1050-LOOP	220-240 VAC / VDC	0,19-0,26	0,87c	600	25-54	60	32,4	R=∞Ω	-25-45	85
			0,97	1050	25-42,8		45	R=0Ω		
LC51SE-DA-900-1400-LOOP	220-240 VAC / VDC	0,22-0,31	0,98	900	25-54	60	48,6	R=∞Ω	-25-45	80
			0,98	1400	25-36,4		51	R=0Ω		

Note:

For model LC35SE-DA-350-850 and LC45SE-DA-600-1050, are built-in type when not incorporate with cable calms, independent type when incorporate with cable clamps.

LC35SE-DA-350-850 and LC45SE-DA-600-1050 have same dimension of enclosure, similar PCB layout and circuit diagram. The major differences among them are output type, output voltage and current, shape and rating of some components, turns of secondary coil of transformer.

LC35SE-DA-350-850-LOOP, LC45SE-DA-600-1050-LOOP and LC51SE-DA-900-1400-LOOP have same dimension of enclosure, similar PCB layout and circuit diagram. The major differences among them are output type, output voltage and current, shape and rating of some components, turns of secondary coil of transformer.

Loop series and unloop series have same schematic circuit diagram but different PCB layout.