

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
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

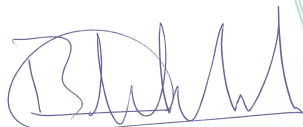
DEKRA hereby grants the right to use the ENEC certification mark.

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 9 September 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-146616

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



R Zhou
Certification Manager

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COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: LED controlgear
Trade name(s)	: Helvar
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
Rated frequency	: 0/50-60 Hz
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

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

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 491203900.

Additional information

The list of components is laid down in test report 4912039.50,4912039.51.

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 stands for

Helvar
Components

model list:

Model No.	Input			Output				I _{set}	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.