

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEME

## CB TEST CERTIFICATE

Product

Electronic controlgear for LED module

Name and address of the applicant

Helvar Oy Ab  
Keilaranta 5  
FI-02150 Espoo  
Finland

Name and address of the manufacturer

Helvar Oy Ab  
Keilaranta 5  
FI-02150 Espoo  
Finland

Name and address of the factory

See page 3

Note: When more than one factory, please report on page 2

 Additional Information on page 2

Ratings and principal characteristics

See page 2

Trademark (if any)

HELVAR

Customer's Testing Facility (CTF) Stage used

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Model / Type Ref.

LL1x23-80-E-CC, LL1x10-42-E-CC, LL1x110-E-CC-  
200-350

Additional information (if necessary may also be reported on page 2)

 Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 61347-2-13:2014  
IEC 61347-2-13:2014/AMD1:2016  
IEC 61347-1:2015, IEC 61347-1:2015/AMD1:2017  
IEC 62384:2006, IEC 62384:2006/AMD1:2009

As shown in the Test Report Ref. No. which forms part of this Certificate

292858-1  
276274-1\_B  
276274-1\_B Amendment No. 1  
274457-1\_B

This CB Test Certificate is issued by the National Certification Body

SGS Fimko Ltd.  
Särkiniementie 3  
FI-00210 Helsinki, Finland

SGS

SGS Fimko Ltd.

Date: 2018-06-08

Signature:

Peter Fagerstedt  
Certification Manager

**Ratings and principal characteristics**

LL1x110-E-CC-200-350: 220 – 240V; 0/50 – 60Hz;

$\lambda$  0,98; Constant Current I-LED / U-LED / Prated: 200 mA / 120 – 350 V / 70W or 350 mA / 120 – 314 V / 110W; U-OUT: 400 V; ta -20...+50 °C; tc +75 °C

LL1x23-80-E-CC: 220 – 240V; 0/50 – 60Hz;

$\lambda$  0,98; Constant Current I-LED / U-LED / Prated: 150 mA / 150 – 350 V / 52,5W or 200 mA / 120 – 350 V / 70W or 350 mA / 120 – 228 V / 80W; U-OUT: 400 V; ta -20...+50 °C; tc +75 °C

LL1x10-42-E-CC: 220-240V; 0/50-60Hz;

$\lambda$  0,98; Constant Current I-LED / U-LED / Prated: 120mA / 80...350V / 42W or 140mA / 80...300V / 42W or 350mA / 30...120V / 42W; U-OUT: 400V; ta: -20...+50°C; tc +75°C

SGS Fimko Ltd.  
Särkiniementie 3  
FI-00210 Helsinki, Finland

**SGS****SGS Fimko Ltd.**

Date: 2018-06-08

Signature:



Peter Fagerstedt  
Certification Manager

## Name and address of the factories:

1. Helvar Oy Ab  
Yrittäjätie 23,  
FI-03600 Karkkila,  
Finland

SGS Fimko Ltd.  
Särkiniementie 3  
FI-00210 Helsinki, Finland

  
SGS Fimko Ltd.

Date: 2018-06-08

Signature:



Peter Fagerstedt  
Certification Manager