



Ref. Certif. No.

FI-35927

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

-

Model / Type Ref.

LL1x80-E-CC-350-700  
LL1x110-E-CC-350-700  
LL1x150-E-CC

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

IEC 61347-2-13:2014  
IEC 61347-2-13:2014/AMD1:2016  
IEC 61347-1:2015

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

289567-1A

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

This CB Test Certificate is issued by the National Certification Body

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

SGS Fimko Ltd.

Date: 2017-12-21

Signature:

Peter Fagerstedt  
Certification Manager

Issued 2016-06-01

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This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



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**Ratings and principal characteristics:**

LL1x80-E-CC-350-700:

220-240V; 0/50-60Hz;  $\lambda$  0,98; constant current: 350mA / 120...228V / Prated 80W or  
700mA / 50...114V / Prated 80W; U-OUT 400V; ta -25...+50°C; tc +75°C

LL1x110-E-CC-350-700:

220-240V; 0/50-60Hz;  $\lambda$  0,98; constant current: 350mA / 120...314V / Prated 110W or  
700mA / 50...157V / Prated 110W, U-OUT 400V; ta -25...+50°C; tc +75°C

LL1x150-E-CC:

220-240V; 0/50-60Hz;  $\lambda$  0,98; constant current: 350mA / 257...350V / Prated 122,5W or  
700mA / 128...214V / Prated 150W; U-OUT 400V; ta -25...+50°C; tc +75°C

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