

# CERTIFICATE ENEC/FI 2017081



Our Ref. 289567-1

**Product** Electronic control gear for LED module

**Rating and principal characteristics** See page 2

**Trade mark (if any)** Helvar

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

**Name and address of the licensee and the manufacturer** Helvar Oy Ab  
Keilaranta 5  
FI-02150 ESPOO  
FINLAND

**Is in conformity with** EN 61347-2-13:2014 +A1:2017  
EN 61347-1:2015  
EN 62384:2006 + A1:2009

**As shown in the Test Report(s) No(s)** 289567-1A, 289567-1B

**It is authorized to use of the marks** ENEC 16 and FI

**Validity** This certificate is valid until 21 December 2022 provided that the Conditions for ENEC and FI certification are met. This certificate includes the right to use the ENEC 16 and FI mark under the condition that product changes (if any) will be approved at SGS Fimko before the product is brought onto market.

**Directive information** The certified product(s) fulfils requirements of above mentioned standard(s) which are harmonised under the Low Voltage Directive (2014/35/EU) at the date of issue of the certificate.

**With the following limitations** -

**Date of issue** 21 December 2017

**Signature** *Peter Fagerstedt*  
Peter Fagerstedt

Certification Manager



This certificate has 3 pages



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/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.

Additional information



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

Page No.: 3 of Certificate No.: ENEC/FI 2017081

**Manufacturing site(s)**

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FINLAND