

CERTIFICATE ENEC16/FI/19/10032

HEL-CERT190400244-02 Our Ref.

	ame and address of the censee	Helvar Oy Ab Keilaranta 5 FI-02150 Espoo Finland
Pi	roduct	Electronic controlgear for LED modules, controllable
Т	rade mark (if any)	TCI
тյ	ypes	R-LED 80/700 DALI SLIM R-LED 110/700 DALI SLIM R-LED 150/700 DALI SLIM R-LED 42/350 DALI SLIM R-LED 80/350 DALI SLIM
	ating and principal haracteristics	See page 2
	complying with the following uropean Standards	EN 61347-2-13:2014 + A1:2017 EN 61347-1:2015 EN 62384:2006 +A1:2009
It is authorized to use the ENEC Mark in conjunction with the suffix 16, as shown above.		
V	alidity	This certificate is valid until 11 April 2024 provided that the Conditions for ENEC certification are met. This certificate includes the right to use the ENEC 16 mark under the condition that product changes (if any) will be approved at SGS Fimko before the product is brought onto market.
D	irective 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.

This certificate has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

Date of issue

11 April 2019

SGS Fimko Ltd

Signature

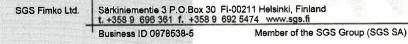
SADA Joonas Leinonen

Specialist

This certificate has 3 pages



This certificate is issued by the company under its General Conditions for Certification Services accessible at <u>http://www.sos.fi/en/Terms-and-Conditions.aspx</u>. 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.





Page No.: 2 of Certificate No.: ENEC16/FI/19/10032

Name and address of the Manufacturer

Rating and principal characteristics



R-LED 80/700 DALI SLIM:

Same as applicant

220-240 V; 0/50-60 Hz; lout/Vout: 350 mA / 50...220 V or 700 mA / 35...114 V; λ 0,98; U-OUT: 250 V; Prated: 80 W; ta: -20...+50 °C; tc: 75 °C; EL-marked

R-LED 110/700 DALI SLIM:

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

R-LED 150/700 DALI SLIM:

220-240 V; 0/50-60 Hz; lout/Vout: 350 mA / 257...350 V or 700 mA /128...214 V; λ 0,98; U-OUT: 400 V; Prated: 150 W; ta: -25...+50 °C; tc: 80 °C

R-LED 42/350 DALI SLIM:

220-240 V; 0/50-60 Hz; lout/Vout: 120 mA / 80...220 V or 350 mA / 50...120 V; λ 0,98; U-OUT: 250 V; Prated: 42 W; ta: -25...+50 °C; tc: 75 °C

R-LED 80/350 DALI SLIM:

220-240 V; 0/50-60 Hz; lout/Vout: 150 mA / 150...350 V or 350 mA / 64...228 V; U-OUT 400 V; Prated 80 W; λ 0.98; tc +75 °C; ta -25...+50 °C; EL-marked

Following limitations apply

As shown in the Test Report(s) No(s):

289530-1A, 289530-1A Amendment-1, 289530-1A Amendment-2, 289530-1B, 289530-1B Amendment-1

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Business 1D 0978538-5

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Page No.: 3 of Certificate No.: ENEC16/FI/19/10032

Manufacturing site(s)

1. Helvar Oy Ab Yrittäjäntie 23 FI-03600 Karkkila Finland

2. Delta Electronics (Wuhu) Ltd. No.138, Jiuhua North Road Longshan Street, Economic Technical Development Area Wuhu, 241009, Anhui China

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