

# ENEC LICENSE

License No. ENEC-02686  
Page 1/4  
Date of Issue 2019-07-03

**License Holder** Upwertek Co Ltd  
Room A105, #1213 Huoju South Road, Binjiang District  
Hangzhou, 310000 Zhejiang China

**Production site** Upwertek Co Ltd  
Room A105, #1213 Huoju South Road, Binjiang District  
Hangzhou, 310000 Zhejiang China

**Certification Mark** See Annex 1

**Certified Product** Independent SELV controlgear

**Model** TLD-160-Cbbb-xyS-wwwwww, TLD-160-Vbbb-xyS-wwwwww,  
TLD-180-Cbbb-xyS-wwwwww, TLD-180-Vbbb-xyS-wwwwww,  
TLD-200-Cbbb-xyS-wwwwww, TLD-200-Vbbb-xyS-wwwwww,  
See Page 2-3

**Trademark**

**uPowerTek**

**Rated Voltage / Frequency** Input: 200-480 V~, 50/60 Hz; 280-680V dc

**Rated Current / Power**  $\Lambda=0.9C$

**Insulation Class** -

**Degree of protection (IP)** 67

**Tested acc. to** EN 61347-1:2008/A1:2011, EN 61347-1:2008/A2:2013, EN  
61347-1:2008, EN 61347-2-13:2014, EN 62384:2006/A1:2009,  
EN 62384:2006

**Test Report No.** 4787603752.1-2 issued on 2019-04-24, 4787603752.2-2 issued  
on 2019-04-24

**Additional** ta= 40°C, tc= 90 °C

Output: (see test report for further ratings) DC, SELV

**Certification Manager**  
Jan-Erik Storgaard

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

**Certification Body**

UL International Demko A/S, Borupvang 5A, DK-2750  
Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com  
www.ul-europe.com



# ENEC LICENSE

License No. ENEC-02686  
Page 2/4  
Date of Issue 2019-07-03

## Model Details:

TLD-400-Cbbb-xyS-wwwwww;( "bbb" to be 370-201); TLD-360-Cbbb-xyS-wwwwww;( "bbb" to be 340-201);  
TLD-320-Cbbb-xyS-wwwwww;( "bbb" to be 300-201); TLD-280-Cbbb-xyS-wwwwww;( "bbb" to be 260-201);  
TLD-240-Cbbb-xyS-wwwwww;( "bbb" to be 230-201); TLD-200-Cbbb-xyS-wwwwww;( "bbb" to be 190-171);  
TLD-180-Cbbb-xyS-wwwwww;( "bbb" to be 170-151); TLD-160-Cbbb-xyS-wwwwww;( "bbb" to be 150-131);

TLD-400-Vbbb-xyS-wwwwww;( "bbb" to be 020-107); TLD-360-Vbbb-xyS-wwwwww;( "bbb" to be 018-107);  
TLD-320-Vbbb-xyS-wwwwww;( "bbb" to be 016-107); TLD-280-Vbbb-xyS-wwwwww;( "bbb" to be 014-107);  
TLD-240-Vbbb-xyS-wwwwww;( "bbb" to be 012-107); TLD-200-Vbbb-xyS-wwwwww;( "bbb" to be 012-107);  
TLD-180-Vbbb-xyS-wwwwww;( "bbb" to be 012-107); TLD-160-Vbbb-xyS-wwwwww;( "bbb" to be 012-107);

## Model Nomenclature:

Where the "bbb": refer to above "Model details"

When models followed by C, "bbb" represents the output current, when output current is less than 1 A, then b(1)b(2)b(3) represents b(1).b(2)b(3) A, when output current is more than or equal to 1 A, then b(1)b(2)b(3) represents b(1). b(2)x 10 b(3) A , eg, 093 for 0.93 A output, 201 for 20 A output, and one combination can only represents one output current, for 16.7A, the "bbb" to be 171 as the nearly, and 171 cannot represent other output current.

When models followed by V, "bbb" represents the output voltage, eg, 018 for 18 V, 428 for 428 V output, and one combination can only represents one output voltage, for 12.5V, the "bbb" to be 012 as the nearly, and 012 cannot represent other output voltage.

"x" represents the dimming type as below, all dimming method can control the output current from 10% to 100% of rating.

N	Non-dimmable
D	0-10V Dimming
E	0-10V/PWM/time dimming with 12V aux
T	Time Dimming
A	DALI Dimming
M	DMX Dimming

## Certification Body

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).



# ENEC LICENCE

**Licence No.** ENEC-02686  
**Page** 3/4  
**Date of Issue** 2019-07-03

## Model Details:

“y” represents the programmability as below, all program method can control the output current from 10% to 100% of rating.

N	Non Programmable
R	NFC Programmable
C	Cable Programmable

Where the “-wwwww” : can be any alphanumeric or blank for marketing purpose only

---

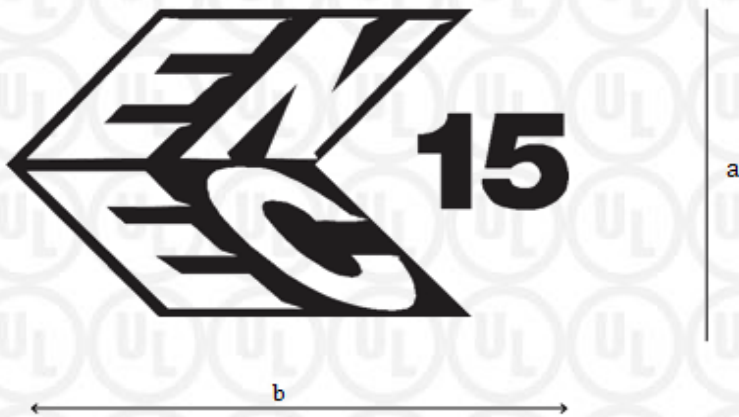
The product and production sites listed on the License comply with the ENEC requirement and the UL Global Service Agreement, with reference to Terms and Conditions for the ENEC mark. The Owner of the License is entitled to use the ENEC 15 (as shown in annex 1) for the products listed on the License and manufactured at the production site listed. UL has to be informed in writing about any changes to the product or production site in accordance with the Term and Conditions of the ENEC mark.



# Annex 1 to License No.

## ENEC-02686

### Annex of the form of the Mark



\* Identification number of the Certification Body

Size of the mark:

The size of the mark may be reduced on the condition that it remains legible and that the ratio  $b/a=1,7$  is kept

---

**Certification Body**

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

