



| Model                    | Item Code | Output current | Input current | Input power | Output power range | PF     | Efficiency | Output voltage | No load voltage |
|--------------------------|-----------|----------------|---------------|-------------|--------------------|--------|------------|----------------|-----------------|
| CC36W150-900-DALI-NFC-NX | 157720    | 150-900mA      | ≤0.19A        | 40.90W      | 0.40-36.00W        | ≥ 0.95 | 88%        | 2.5-50Vdc      | 60Vdc           |

**\* Test result @230V, 50Hz, Full Load.**

## 1. Parameters

| Category | Item                      | Technical Norm                          |
|----------|---------------------------|-----------------------------------------|
| Features | Output Type               | Constant Current                        |
|          | Dimming Type              | Amplitude (DALI-2)                      |
|          | Output current setting    | Near field communication (NFC)          |
|          | Output Features           | Isolation                               |
|          | IP Grade                  | IP20                                    |
|          | Insulation Class          | Class II (compatible Class I)           |
| Input    | Rated Input Voltage       | 220-240VAC                              |
|          | Range of Input Voltage    | 198-264VAC                              |
|          | Range of DC Input Voltage | 180-280VDC                              |
|          | Frequency                 | 0/50/60Hz, Range:0/47-63Hz              |
|          | Overvoltage protection    | 2h@380VAC, 48h@320VAC                   |
|          | Input Current             | ≤0.19A max                              |
|          | Input Power               | ≤40.90W max                             |
|          | Power Factor              | ≥0.95 (230VAC, full load)               |
|          | THD                       | ≤8% (230VAC, full load)                 |
|          | Standby Power Consumption | ≤0.3W @230VAC (DALI system DIM to off ) |
|          | Inrush Current            | ≤8.5A/2.8us (230VAC, full load)         |

|                |                                                                                                                                                  |                                                                                                                                                                                                 |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | Connected quantity of 10A Breaker<br>Connected quantity of 13A Breaker<br>Connected quantity of 16A Breaker<br>Connected quantity of 20A Breaker | 22pcs/type A ; 36pcs/type B ; 58pcs/type C<br>29pcs/type A; 47pcs/type B ; 76pcs/type C<br>36pcs/type A; 58pcs/type B ; 94pcs/type C<br>45pcs/type A; 73pcs/type B ; 117pcs/type C              |
| Output         | Output Voltage Range                                                                                                                             | 2.5-50VDC@150-700mA ; 2.5-42VDC@750-850mA<br>2.5-40VDC@900mA                                                                                                                                    |
|                | No Load Voltage                                                                                                                                  | 60VDC Max.                                                                                                                                                                                      |
|                | Output Current                                                                                                                                   | 150-900mA (by NFC setting ,<br>Factory set current of 150mA)                                                                                                                                    |
|                | Max. Output Power                                                                                                                                | 36W                                                                                                                                                                                             |
|                | Efficiency                                                                                                                                       | ≥88% @700mA, 230VAC                                                                                                                                                                             |
|                | Output LF current ripple (< 120 Hz)                                                                                                              | ±3% (Imax-Imin) / (Imax+Imin )                                                                                                                                                                  |
|                | Current Accuracy                                                                                                                                 | ±5%                                                                                                                                                                                             |
|                | PSTLM                                                                                                                                            | ≤1                                                                                                                                                                                              |
|                | SVM                                                                                                                                              | ≤0.4                                                                                                                                                                                            |
|                | Starting Time (AC mode)                                                                                                                          | ≤0.8S (230VAC, full load, by DALI system)                                                                                                                                                       |
|                | Starting Time (DC mode)                                                                                                                          | ≤0.4S                                                                                                                                                                                           |
|                | Switching over time (AC/DC)                                                                                                                      | ≤0.4S                                                                                                                                                                                           |
| Control Method | Secondary PUSH dimming                                                                                                                           | Secondary PUSH dimming (Max. lead wire length:<br>20m, same port of DALI)                                                                                                                       |
|                | PUSH-button                                                                                                                                      | Max parallel connections qty for Push-dim 15                                                                                                                                                    |
|                | DALI function                                                                                                                                    | DALI dimming (Max. lead wire length: 300m)<br>logarithm or linear dimming curve selectable                                                                                                      |
|                | Dimming range                                                                                                                                    | DALI dimming:1%-100%                                                                                                                                                                            |
|                | NFC current setting                                                                                                                              | The output current can be set within the total value<br>range in 1-mA-steps. Output current is mean value.<br>Setting is by EX·IVO's software APP/APK/PC with<br>FEIG equipment or mobile phone |
| Protection     | Short Circuit Protection                                                                                                                         | Auto Recovery                                                                                                                                                                                   |
|                | Overload Protection                                                                                                                              | Auto Recovery (not be hot swap)                                                                                                                                                                 |
|                | No-load Protection                                                                                                                               | Auto Recovery                                                                                                                                                                                   |
|                | Insulation voltage                                                                                                                               | 3000V 5mA 60S between P-S                                                                                                                                                                       |
|                | Insulation resistance                                                                                                                            | >100M ohm @ 500VDC L/N to PE                                                                                                                                                                    |
|                | Leakage current                                                                                                                                  | <700μA,I/P to O/P@230V input                                                                                                                                                                    |
| Environment    | Ta/Operation Temperature                                                                                                                         | -20....+50℃                                                                                                                                                                                     |
|                | Ts/Storage Temperature                                                                                                                           | -20....+90℃                                                                                                                                                                                     |
|                | Tc/Enclosure Temperature                                                                                                                         | 90℃                                                                                                                                                                                             |
|                | Humidity                                                                                                                                         | 10%.... 90%RH                                                                                                                                                                                   |
|                | Atmosphere                                                                                                                                       | 86-108KPa                                                                                                                                                                                       |
| Construction   | Connection Method                                                                                                                                | Push-in Terminal                                                                                                                                                                                |

|           |                       |                                                                                                                                                                                                                                                    |
|-----------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | Installation          | Build-in & Independent                                                                                                                                                                                                                             |
|           | PRI Wire preparation  | 0.5-1.5□/ 8-9mm                                                                                                                                                                                                                                    |
|           | SEC Wire preparation  | 0.5-1.5□/ 8-9mm                                                                                                                                                                                                                                    |
|           | DALI Wire preparation | 0.5-1.5□/ 8-9mm                                                                                                                                                                                                                                    |
|           | SEC Wire preparation  | 0-0.8±0.05m (The EMC test results were achieved at approximately 0.8 meters) (the length required by the standard). If there are any data differences, please test according to the length required by the standard)                               |
|           | Dimension             | 128*30*21mm (L*W*H)                                                                                                                                                                                                                                |
| Standards | Certification         | CE/ENEC/SAA/UKCA/EAC/CB                                                                                                                                                                                                                            |
|           | Safety Standards      | EN61347-1:2015/A1:2021;<br>EN61347-2-13:2014/A1:2017;<br>EN62384:2006/A1:2009; AS 61347.2.13:2018;<br>AS/NZS61347.1:2016; BS EN61347-1:2015/A1:2021;<br>BS EN61347-2-13:2014/A1:2017;<br>IEC 61347-1:2015+A1:2017;<br>IEC 61347-2-13:2014+A1:2016; |
|           | EMC Standards         | AS/NZS CISPR 15:2011; AS CISPR 15:2017 ;<br>BS EN IEC 55015:2019+A11:2020; EN 61547:2009;<br>BS EN IEC 61000-3-2:2019;<br>BS EN 61000-3-3:2013+A1:2019;                                                                                            |
|           | Performance           | EN62384                                                                                                                                                                                                                                            |
|           | DALI Performance      | EN 62386-101 (DALI-2)<br>EN 62386-102 (DALI-2)<br>EN 62386-207 (DALI-2, including part 251, 252, 253)                                                                                                                                              |
|           | Surge                 | L/N-Ground:2kV; L-N:1kV                                                                                                                                                                                                                            |
| Others    | RoHS                  | complied to 2011/65/EU                                                                                                                                                                                                                             |
|           | Life Time             | 50000h Tc=90℃                                                                                                                                                                                                                                      |
|           |                       | 75000h Tc=85℃                                                                                                                                                                                                                                      |
|           |                       | 100000h Tc=80℃                                                                                                                                                                                                                                     |
|           | Warranty              | 5years , F.R. < 10000ppm                                                                                                                                                                                                                           |

**Remark:**

- 1.All Parameters,if not specified,are measured at 230VAC/50Hz and 25℃ ambient temperature.
- 2.LED Driver is a component of the luminaires. Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
- 3.Please make sure Tc under Lifetime condition when long term operate under DC input.
- 4.DC emergency (DCemDim):Default 15%, EOFx range = 1 .. 100% (EOFx = DCemDIM level)
- 5.During the PUSH DIM test, the number of parallel connections must be less than 15PCS.
- 6.When the lamps and the power supply are connected in a common ground state, there is no residual light phenomenon when the output voltage is above 9V, but there is residual light phenomenon when the output voltage is below 9V.

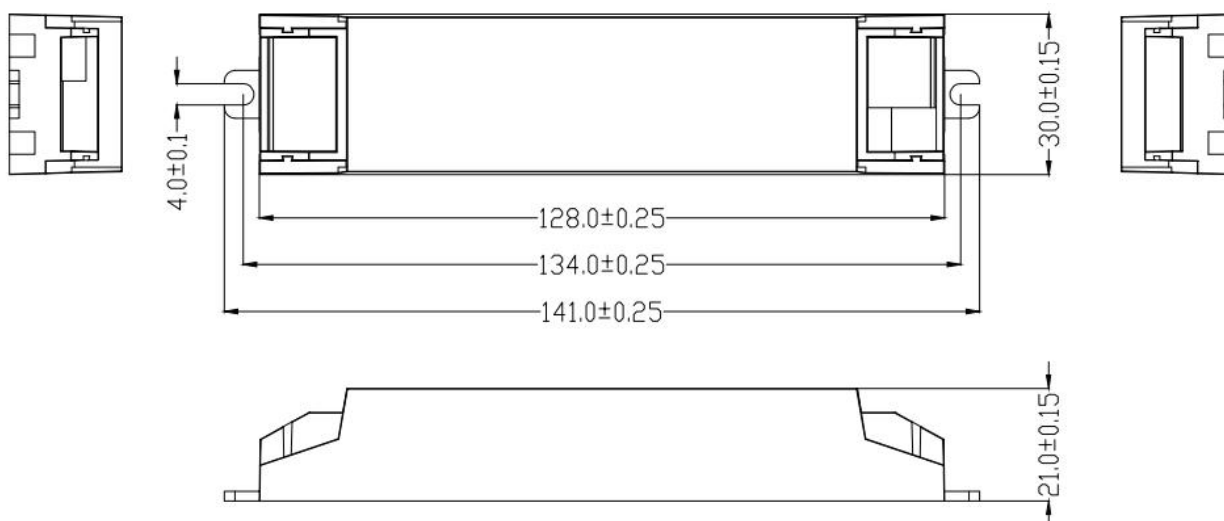
| Distance        | 15m                | 30m                 | 50m                |
|-----------------|--------------------|---------------------|--------------------|
| Cable selection | 0.5mm <sup>2</sup> | 0.75mm <sup>2</sup> | 1.0mm <sup>2</sup> |

## 2. Label



### 3. Dimension (Unit: mm)

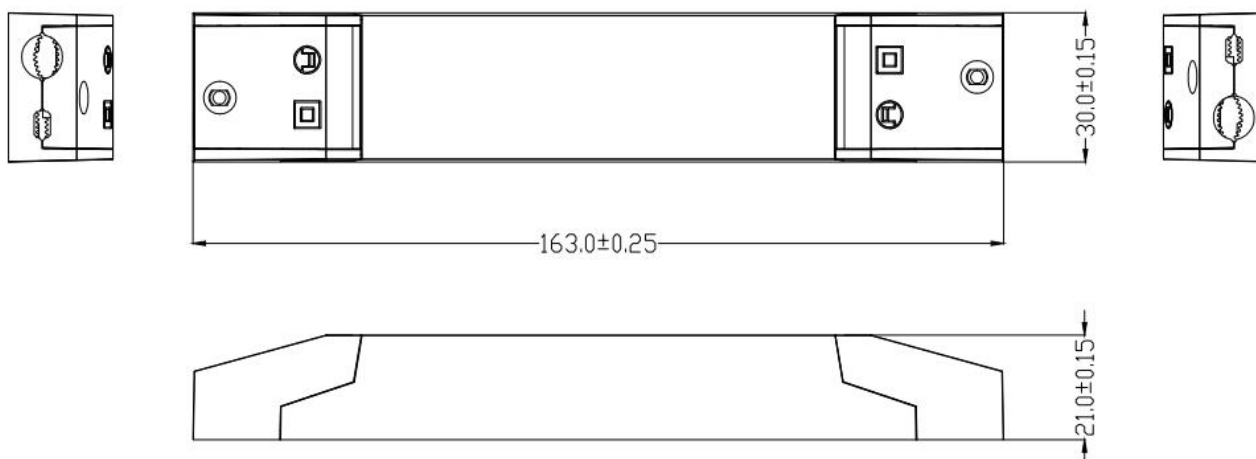
Built in type:



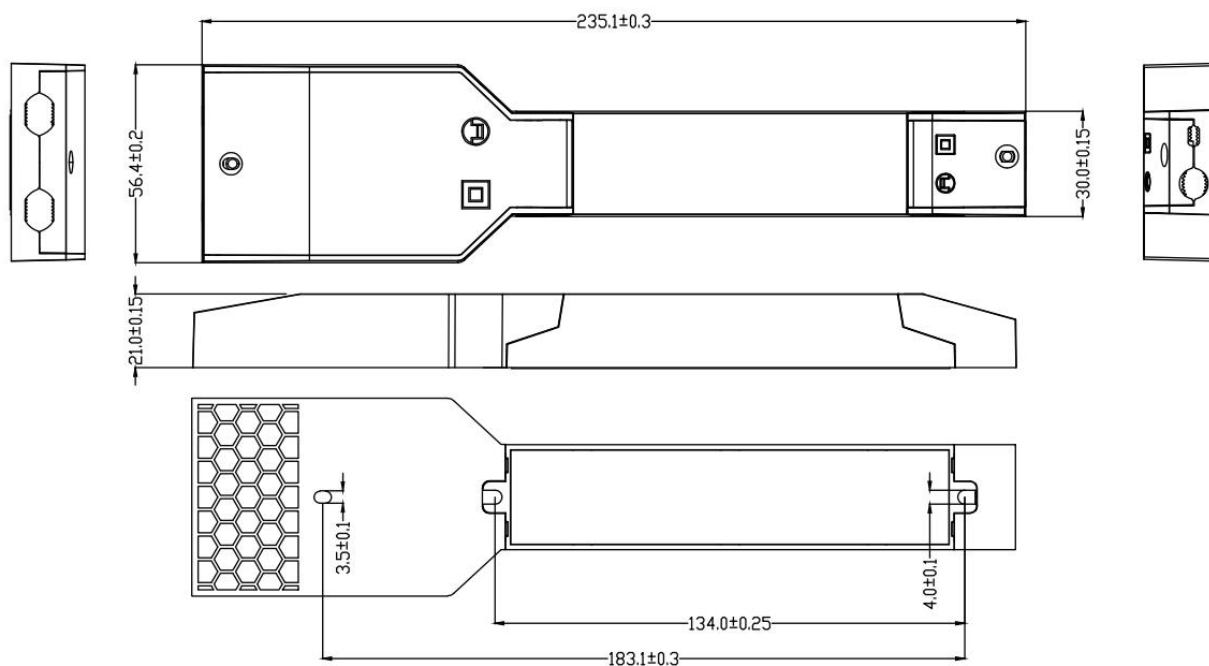
**Compatible Small Strain reliefs:SR\_CC\_15-23-36\_UNI**

**Compatible Large Strain reliefs:SR\_CC\_15-23-36\_5POL**

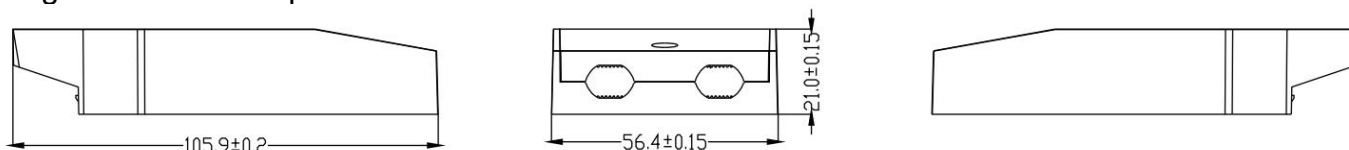
## Small Strain reliefs



## Large Strain reliefs



## Large Strain reliefs specifications



Tolerance for dimensions  $\pm 0.1$  mm

### Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 55.4-57.4 x 20.0-22.0 mm

Wire size: 0.5 - 2.5 mm<sup>2</sup>

Ambient temperature range: -20...+50 °C

Storage temperature range: -20...+85 °C

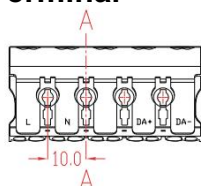
Assembly temperature range: +5...+30 °C

Do not store in wet or humid environment!

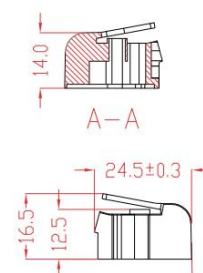
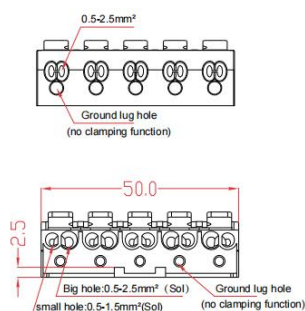
\*Unless otherwise stated in the driver datasheet (for independent installation).

Note! Tc max temperature of the driver shall not be exceeded.

## Terminal

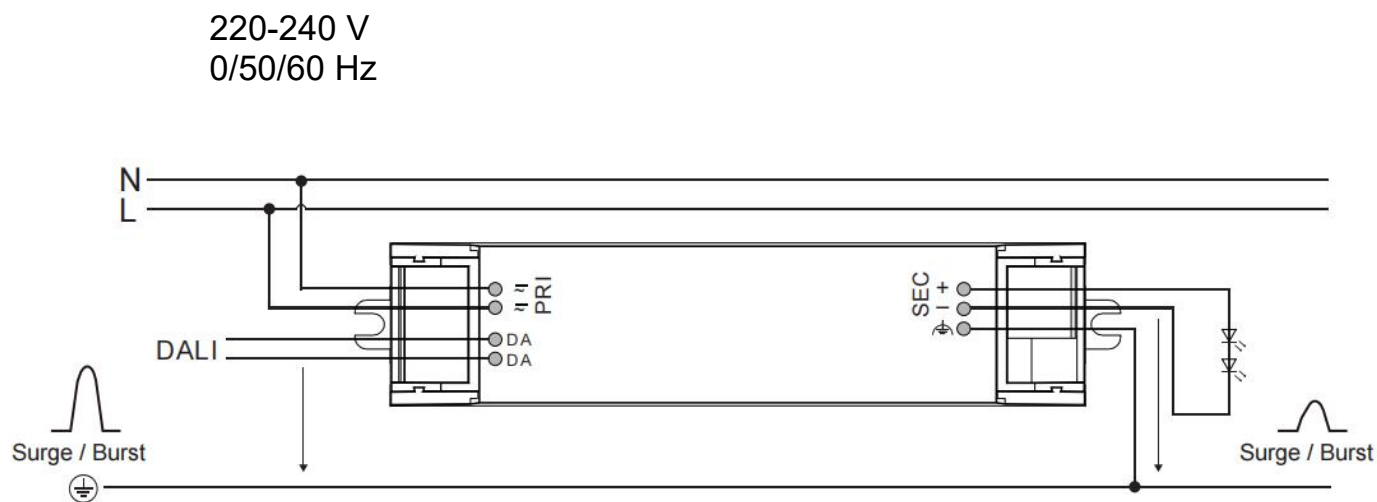
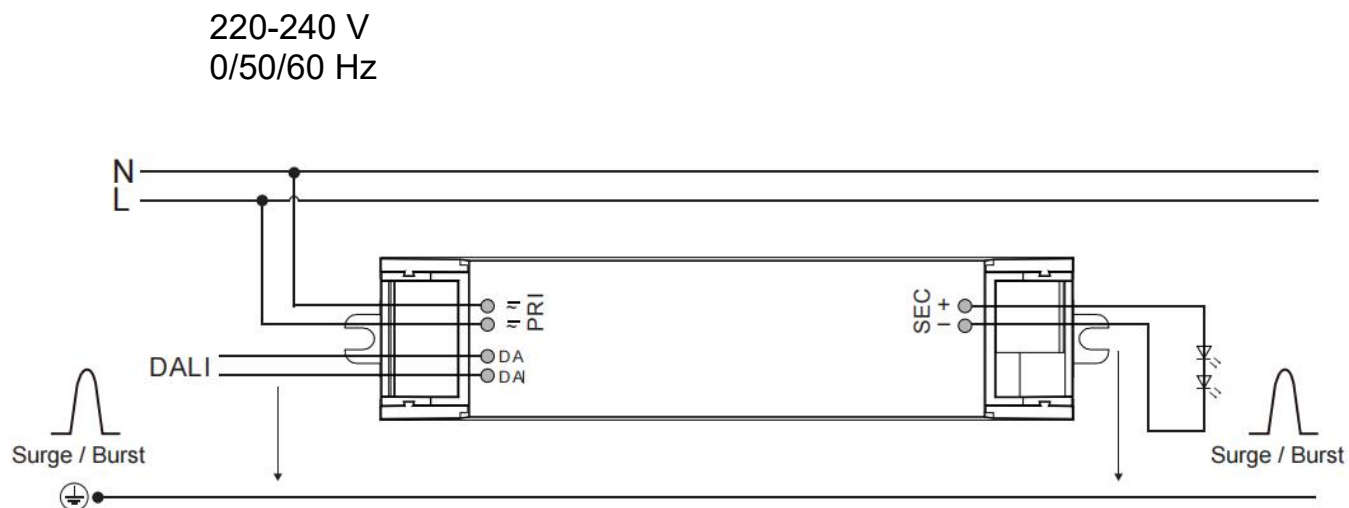


5 - pole connector for DA / CC  
drivers with LC-SRB-LOOP



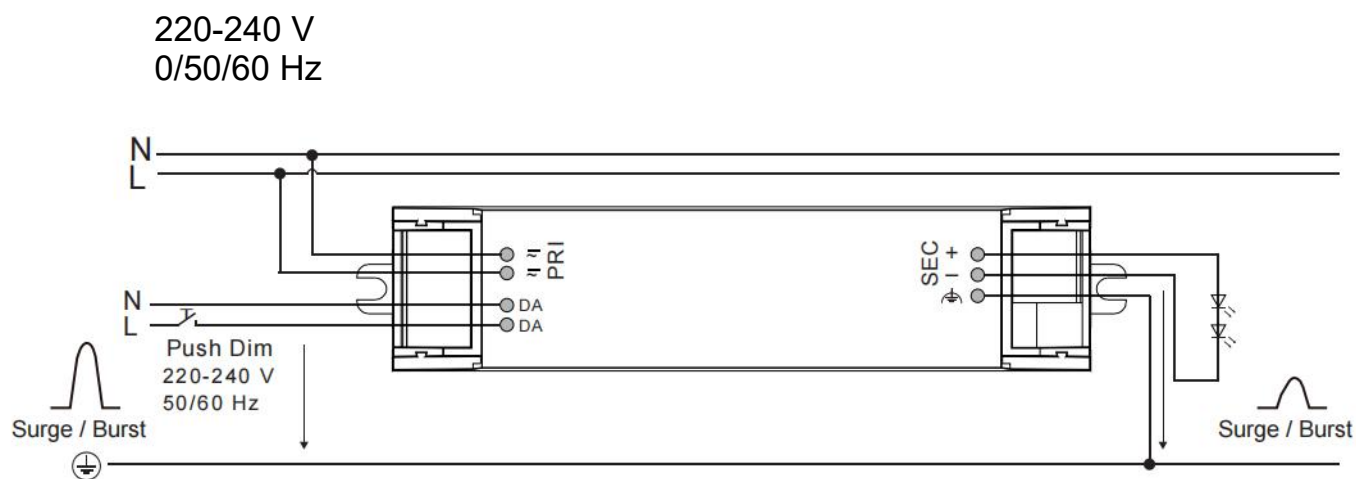
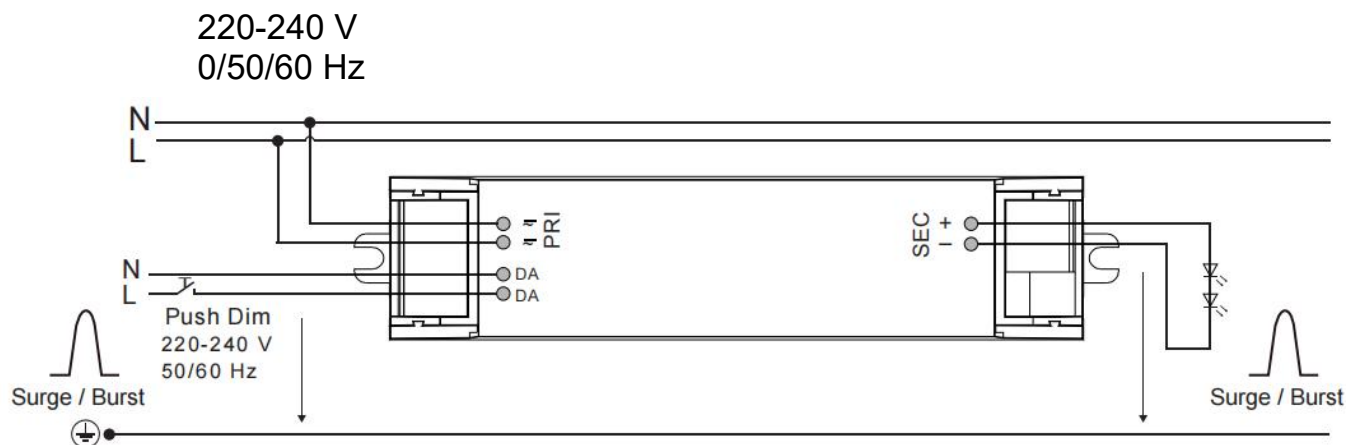
## 4. Wiring Diagram

Figure: Voltage peaks for LED driver without earthing (Above) and with earthing (Below)



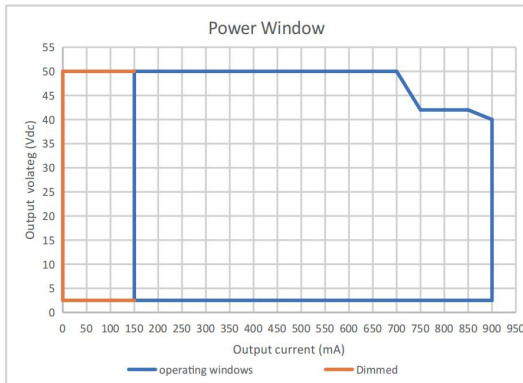
### Push Dimming

Figure: Voltage peaks for LED driver without earthing (Above) and with earthing (Below)

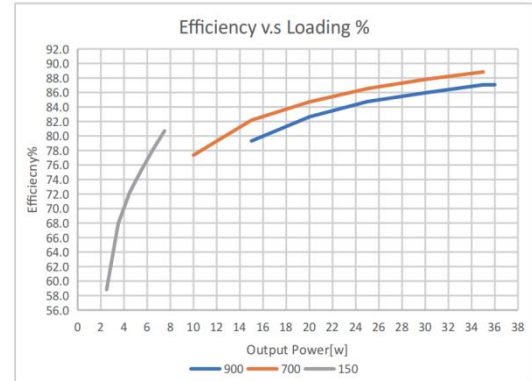


### 5. Electrical values

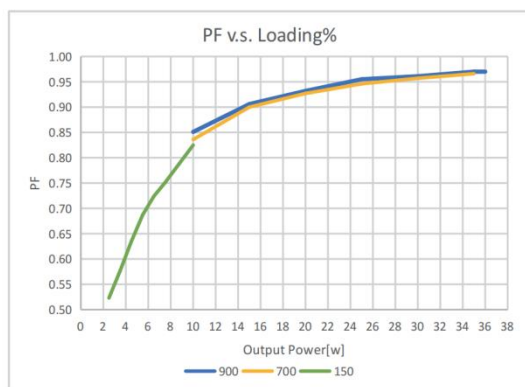
#### 1. Operating power windows



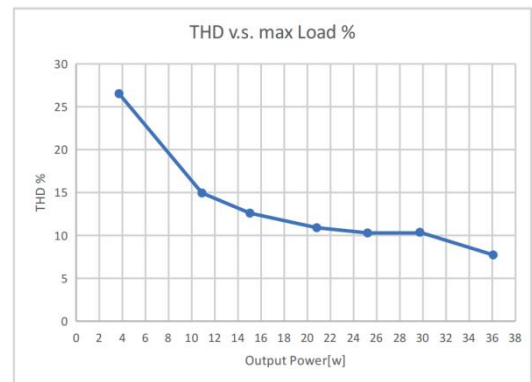
#### 2. Efficiency v.s. Load



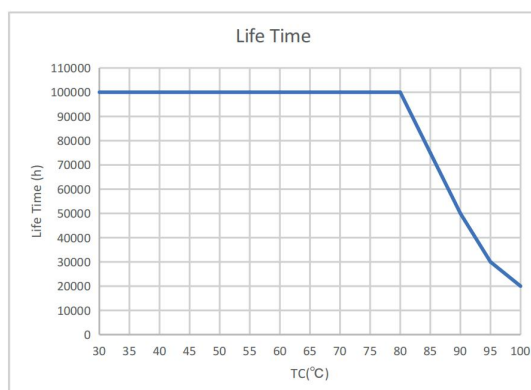
#### 3. PF v.s. Load



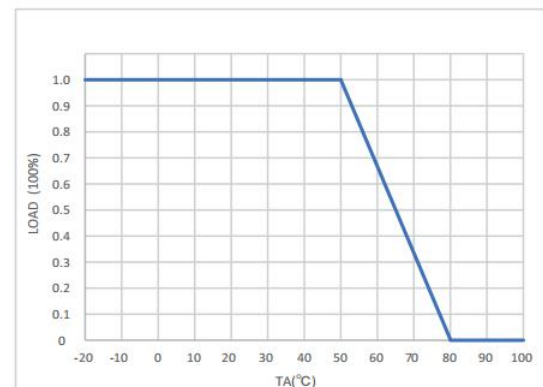
#### 4. THD v.s. Load



#### 5. Life time



#### 6. Derating



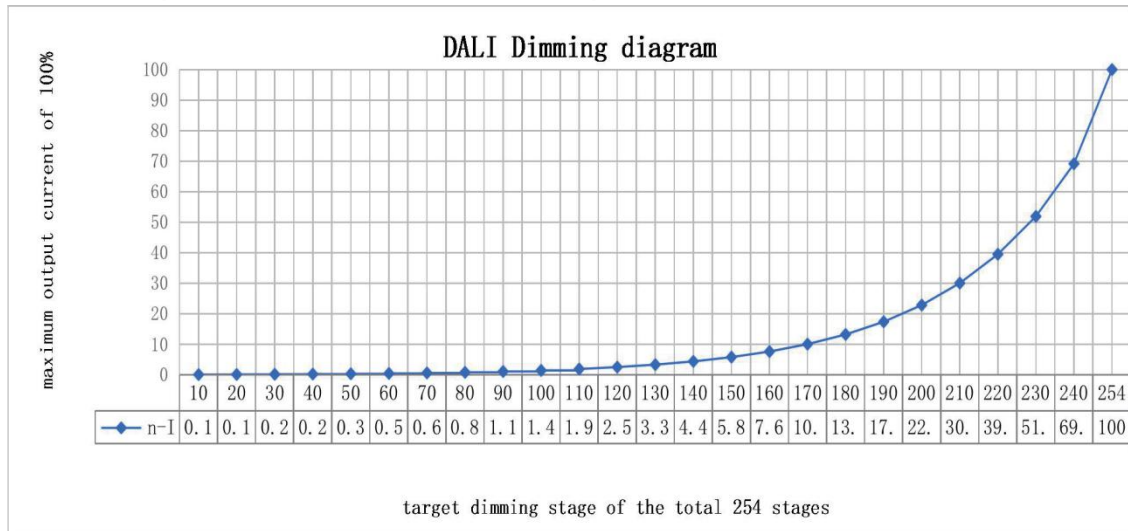
## 6. DALI dimming curve

formula for DALI dimming.

$$X(n) = 10^{\left\{ \left[ \frac{(n-1)}{(253/3)} \right] - 1 \right\}}$$

Here, n means the target dimming stage of the total 254 stages.

X(n) means the percent of the maximum output current



## 7. Function of the earth terminal:



The earth connection is conducted as protection earth (PE). The LED Driver can be earthed via earth terminal or metal housing

(if device has metal housing). If the LED Driver will be earthed, protection earth (PE) has to be used. There is no earth connection required for the functionality of the LED Driver. Earth connection is recommended to improve following behaviour.

- Electromagnetic interferences (EMI)
- LED glowing at standby

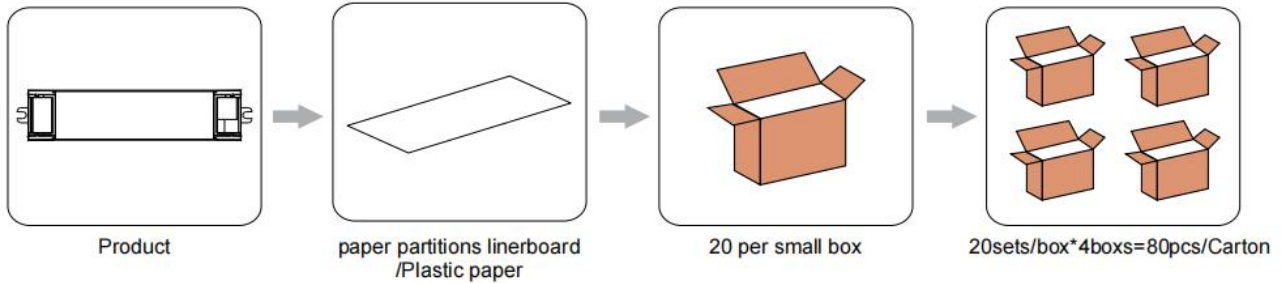
In general, it is recommended to earth the LED Driver if the LED module is mounted on earthed luminaire parts respectively heat sinks and thereby representing a high capacity against earth.

Avoiding residual LED glow on standby Residual LED glow on standby may occur as a result of capacitive leakage currents from the LED module onto earthed luminaire parts (such as the heat sink). This mainly affects high-efficiency LED systems with large surface areas installed in luminaires with protection class 1.

The topology has been improved so that residual LED glow can be virtually eliminated by earthing the devices.

### 8. Packing information

#### Built-in type



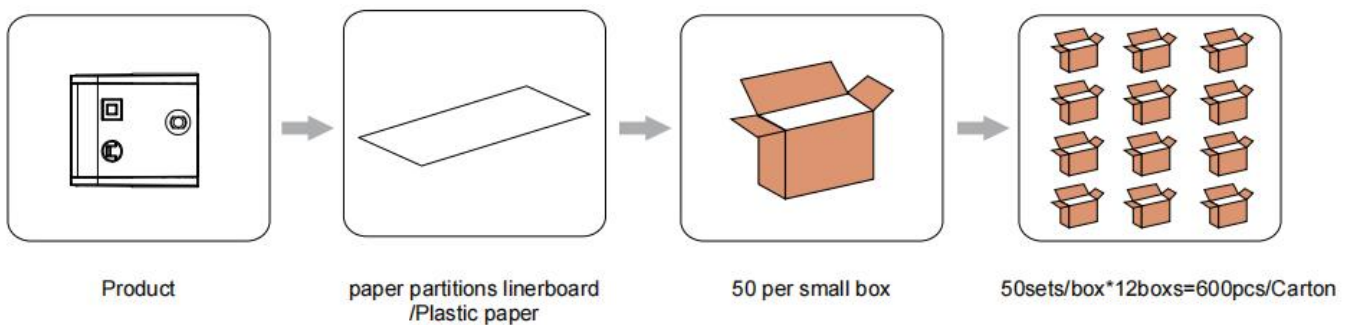
#### Inner box

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 223*126*73          | 20         | 0.10                | 2.00                      | 2.14                         |

#### Outer box

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 310*235*170         | 80         | 0.10                | 8.00                      | 8.60                         |

#### Small Strain reliefs



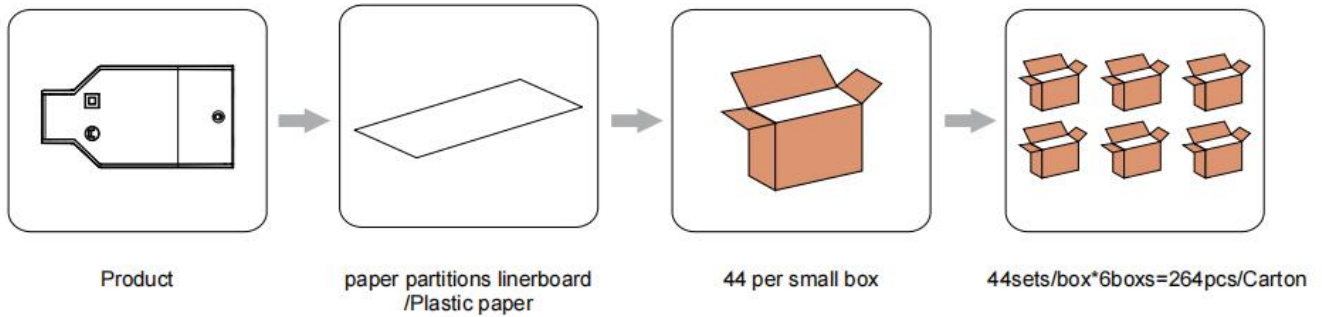
#### Inner box

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 180*118*75          | 50         | 0.007               | 0.36                      | 0.47                         |

#### Outer box

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 500*195*245         | 600        | 0.007               | 4.26                      | 5.56                         |

### Large Strain reliefs



### Inner box

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 300*180*122         | 44         | 0.055               | 2.42                      | 2.77                         |

### Outer box

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 375*315*385         | 264        | 0.055               | 14.52                     | 16.16                        |

## 9. Ordering Data

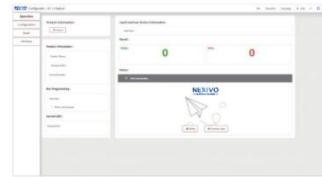
| Model No                 | Item code |
|--------------------------|-----------|
| CC36W150-900-DALI-NFC-NX | 157720    |
| SR_CC_15-23-36_UNI       | 147841    |
| SR_CC_15-23-36_5POL      | 147851    |

## 10. NFC current setting:

NFC Reader (optional)

Feature:

Easily on-line read a output current from a driver or write a new current data to a driver throughout NEX·IVO NFC reader within few seconds.



| Model No                                                                                                 | Description                                              | Interface          | Matching antenna                                                                                         | Zhaga approval | Usage                              |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------|----------------|------------------------------------|
| ID CPR30+<br>          | Desktop programmer                                       | USB                | Integrated                                                                                               | Yes            | Single Programming on Desktop      |
| ID ISC.PRH101-USB<br> | Handheld programmer                                      | USB                | Integrated                                                                                               | Yes            | Single Programming by Handheld     |
| ID ISC.MR102-USB<br>  | Middle range programmer, for connecting external antenna | USB                | RF-MANT12786<br>      | Yes            | Single Programming on Product line |
| ID ISC.LR1002-E<br>   | Long range programmer, for connecting external antenna   | USB, RS232, TCP/IP | ID ISC.ANT310/310<br> | Yes            | Multi Programming System           |

### APP NFC

#### Feature:

Quickly check output current of a LED driver simply via iPhone smart phone, as well as, correct or setup a new current data immediately with no extra equipment at any job site

#### iPhone ICON



#### Main



#### Download method

1.Scan the QR code to download



2.On your iPhone, search for KGP NFC in APP Store to download it



Phone smartphones with NFC can be downloaded and used directly

#### Download method

1.Scan the QR code to download



Android smartphones with NFC can be downloaded and used directly

#### Android ICON

#### Main



| Product                                                                                                        | Description                  | Interface                    | Matching antenna | Zhaga approval | Usage                                                   |
|----------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------|----------------|---------------------------------------------------------|
| ID ECCO Smart<br>HF-BLE<br> | Handheld wireless programmer | USB,Bluetooth LE V4.2 & V5.0 | Integrated       | Yes            | Handheld programming, installation and maintenance work |

## **11. Constant light output (CLO)**

<https://www.kdocs.cn/l/cbWalbA1eiBv>

## **12. Push Dim :**

### **12.1 On / off:**

Short push (120ms-600ms) on the switch

Stepless dimming: long push (> 0.6sec) on the switch

### **12.2 Power-on memory function**

When the LED driver is powered on, it will restore the memory before the LED driver is powered off. (brightness remembers the brightness after the last dimming is stable, and the brightness during dimming is not memorized)

### **12.3 Light on/off**

If the light is on, the light will be off after a short press. If the light is off, the light will be on after a short press. The time range of short press is 120-600ms.

### **12.4 PUSH Dimming**

Press and hold the push switch for a long time, the light will enter the dimming state, if the previous time is dimming, it will automatically turn to dimming the next time. After releasing the reset button, the dimming stops and the current illuminance is maintained. The dimming range is 1%-100%. The default is to dim when the power is first long-press. If the brightness of the power-on is the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

### **12.5 Forced synchronization**

Long press for 10 seconds to turn on all the lights and turn on the same brightness (50%), and continue to quickly short press will not change. After a short period of time without short press operation, the module exits the synchronization mode, and the short press restores the switch function.

### **12.6 PUSH Dimming rate**

Long press the push switch 10S to switch the dimming rate to 3S, Long press the push switch 20S to switch the dimming rate to 6S.

13. REVISION HISTORY

| Date       | Revision | Remark                                       |
|------------|----------|----------------------------------------------|
| 2026.16.03 | V0.01    | Product release                              |
| 2026.13.07 | V0.02    | Standby Power Consumption (Economic Edition) |
|            |          |                                              |
|            |          |                                              |
|            |          |                                              |
|            |          |                                              |
|            |          |                                              |