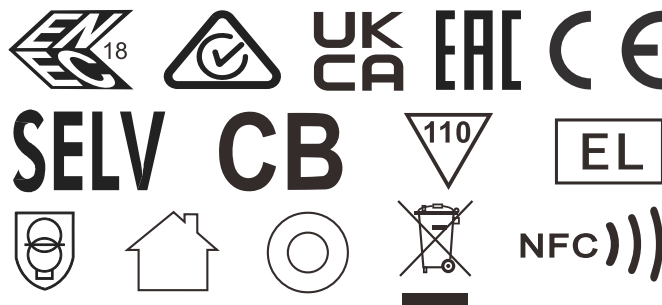


## CC15W100-700 NFC

### Constant Current Driver

Model:CC15W100-700 NFC



| Model            | Output Current | Input Current | Input Power | Output Power Range | PF     | Efficiency | Output Voltage | No load Voltage |
|------------------|----------------|---------------|-------------|--------------------|--------|------------|----------------|-----------------|
| CC15W100-700 NFC | 100-700mA      | ≤0.11A        | 17.2W       | 0.25-15.00W        | ≥ 0.93 | 87%        | 2.5-46Vdc      | 60Vdc           |

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

### 1. Parameters

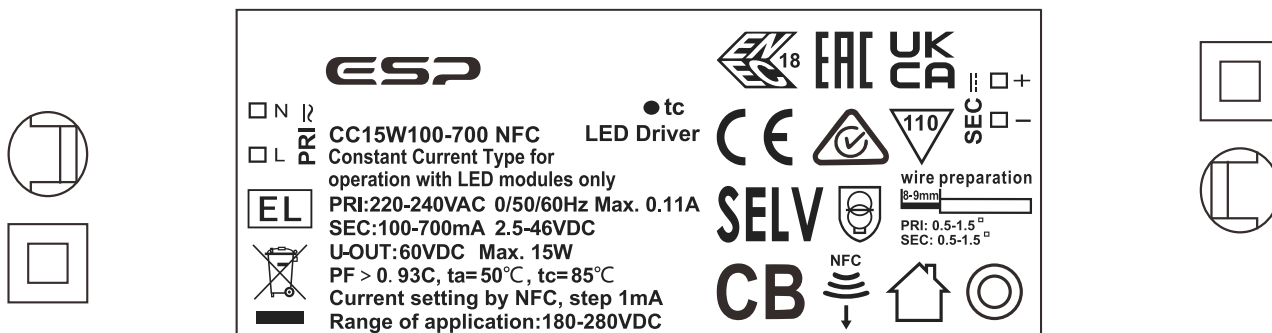
| category | Item                              | Technical Norm                                                                                                                                                       |
|----------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Features | Output Type                       | Constant Current                                                                                                                                                     |
|          | Output current setting            | Near field communication (NFC)                                                                                                                                       |
|          | Output Features                   | Isolation                                                                                                                                                            |
|          | IP Grade                          | IP20                                                                                                                                                                 |
|          | Insulation Class                  | Class II                                                                                                                                                             |
| 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                     | ≤0.11A max                                                                                                                                                           |
|          | Input Power                       | ≤17.2W max                                                                                                                                                           |
|          | Power Factor                      | ≥0.93 (230VAC, full load)                                                                                                                                            |
|          | THD                               | ≤10% (230VAC, full load)                                                                                                                                             |
|          | No-load Power Consumption         | ≤0.5W (230VAC, full load)                                                                                                                                            |
|          | Inrush Current                    | ≤7.2A/2.6us (230VAC, full load)                                                                                                                                      |
|          | Connected quantity of 10A Breaker | 27pcs/type A ; 43pcs/type B ; 69pcs/type C                                                                                                                           |
|          | Connected quantity of 16A Breaker | 43pcs/type A ; 69pcs/type B ; 111pcs/type C                                                                                                                          |
|          | Connected quantity of 20A Breaker | 54pcs/type A ; 86pcs/type B ; 138pcs/type C                                                                                                                          |
|          | Output Voltage                    | 2.5-46VDC@100-300mA, 2.5-42VDC@350mA,<br>2.5-37VDC@400mA, 2.5-33VDC@450mA<br>2.5-30VDC@500mA, 2.5-27VDC@550mA<br>2.5-25VDC@600mA, 2.5-23VDC@650mA<br>2.5-21VDC@700mA |

|                |                                     |                                                                                                                                                                                                                                  |
|----------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output         | No Load Voltage (Uout)              | 60VDC Max.                                                                                                                                                                                                                       |
|                | Output Current                      | 100-700mA (by NFC setting ,Factory set current of 100mA)                                                                                                                                                                         |
|                | Max. Output Power                   | 15.0W                                                                                                                                                                                                                            |
|                | Efficiency                          | ≥87% (230VAC, full load@max current)                                                                                                                                                                                             |
|                | Output LF current ripple (< 120 Hz) | ±3% (Imax-Imin) / (Imax+Imin)                                                                                                                                                                                                    |
|                | Current Accuracy                    | ±5%                                                                                                                                                                                                                              |
|                | Output PstLM (at full load)         | ≤1                                                                                                                                                                                                                               |
|                | Output SVM (at full load)           | ≤0.4                                                                                                                                                                                                                             |
|                | Starting Time (AC mode)             | ≤0.5S (230VAC, full load)                                                                                                                                                                                                        |
| Control Method | NFC current setting                 | The output current can be set within the total value range in 1-mA-steps. Output current is mean value. Setting is by KGP's software APP/APK/PC with 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                                                                                                                                                                                                               |
|                | Leakage current                     | < 700μA, I/P to O/P @230V input                                                                                                                                                                                                  |
| Environment    | Ta/Operation Temperature            | -20℃ .+50℃                                                                                                                                                                                                                       |
|                | Ts/Storage Temperature              | -20℃ .+85℃                                                                                                                                                                                                                       |
|                | Tc/Enclosure Temperature            | 85℃                                                                                                                                                                                                                              |
|                | Humidity                            | 10%....90%RH                                                                                                                                                                                                                     |
|                | Atmosphere                          | 86-108KPa                                                                                                                                                                                                                        |
| Construction   | Connection Method                   | Push-in Terminal                                                                                                                                                                                                                 |
|                | Installation                        | Built -in / Independent                                                                                                                                                                                                          |
|                | PRI Wire preparation                | 0.5-1.5" / 8-9mm                                                                                                                                                                                                                 |
|                | SEC Wire preparation                | 0.5-1.5" / 8-9mm                                                                                                                                                                                                                 |
|                | Dimension                           | 103.4*30*21mm (L*W*H)                                                                                                                                                                                                            |
| Standards      | Certification                       | CE/ENEC/SAA/UKCA/EAC/CB                                                                                                                                                                                                          |
|                | Safety Standards                    | EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; BS EN61347-1:2015/A1:2021; BS EN61347-2-13:2014/A1:2017; IEC 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016; |
|                | EMC Standards                       | AS/NZS CISPR 15:2011; AS CISPR 15:2017; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019;                                                                                    |
|                | Performance                         | EN 62384                                                                                                                                                                                                                         |
|                | Surge                               | L/N-Ground:2kV; L-N:1kV                                                                                                                                                                                                          |

|        |           |                          |
|--------|-----------|--------------------------|
| Others | RoHS      | 2011/65/EU               |
|        | Life Time | 50000h Tc=85°C           |
|        |           | 75000h Tc=80°C           |
|        |           | 100000h Tc=75°C          |
|        | Warranty  | 5years , F.R. < 10000ppm |

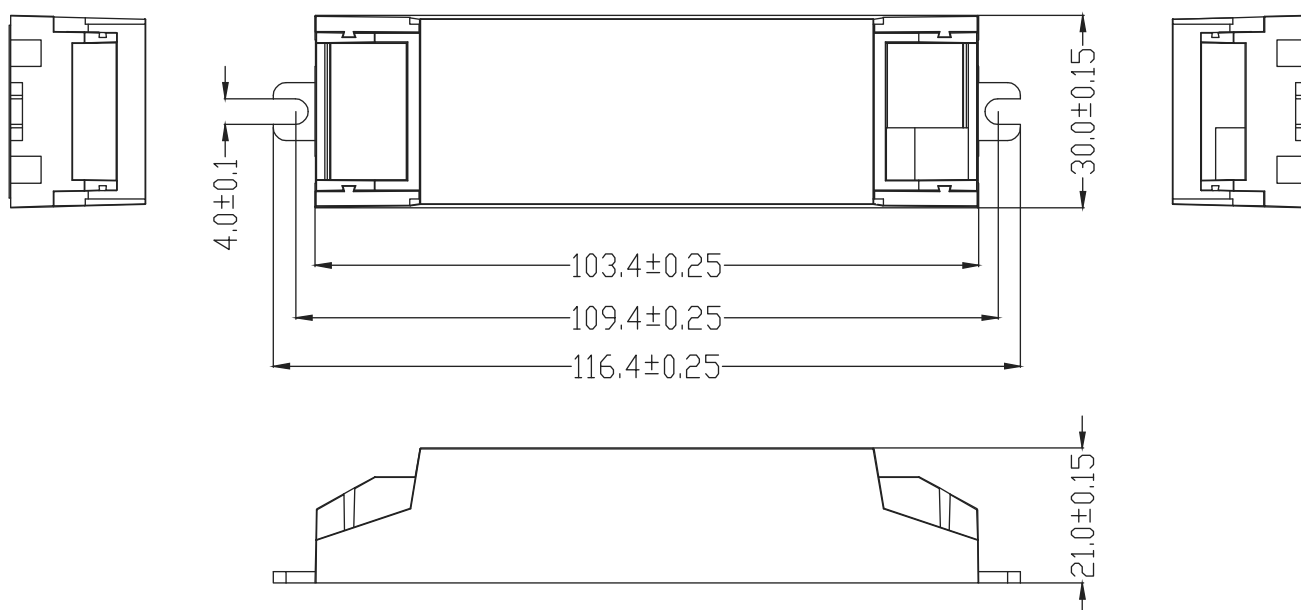
Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.  
2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

## 2. Label



## 3. Dimension (Unit: mm)

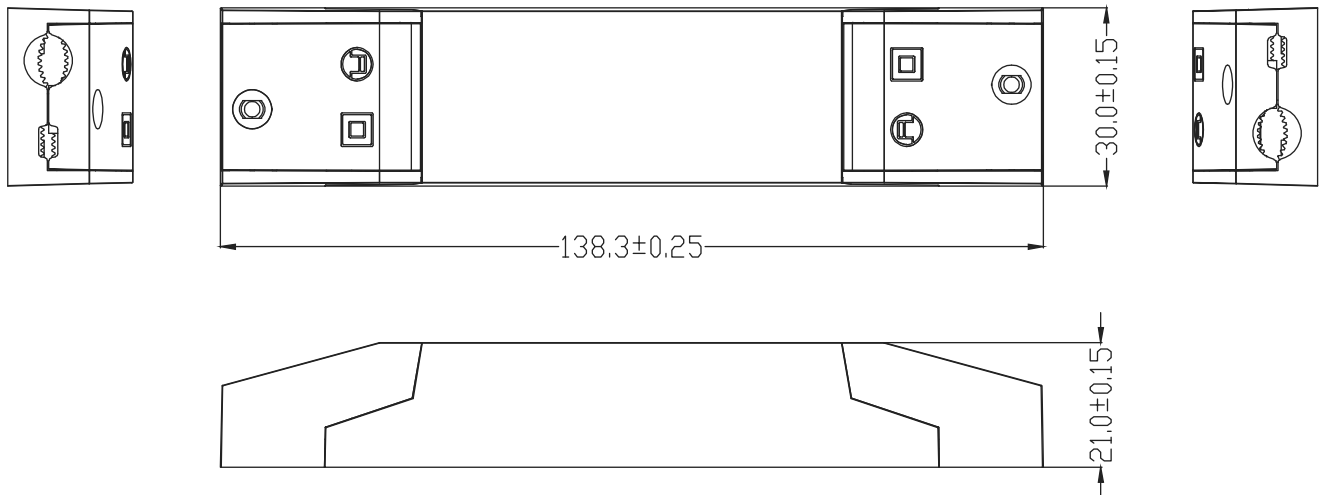
Built in type:



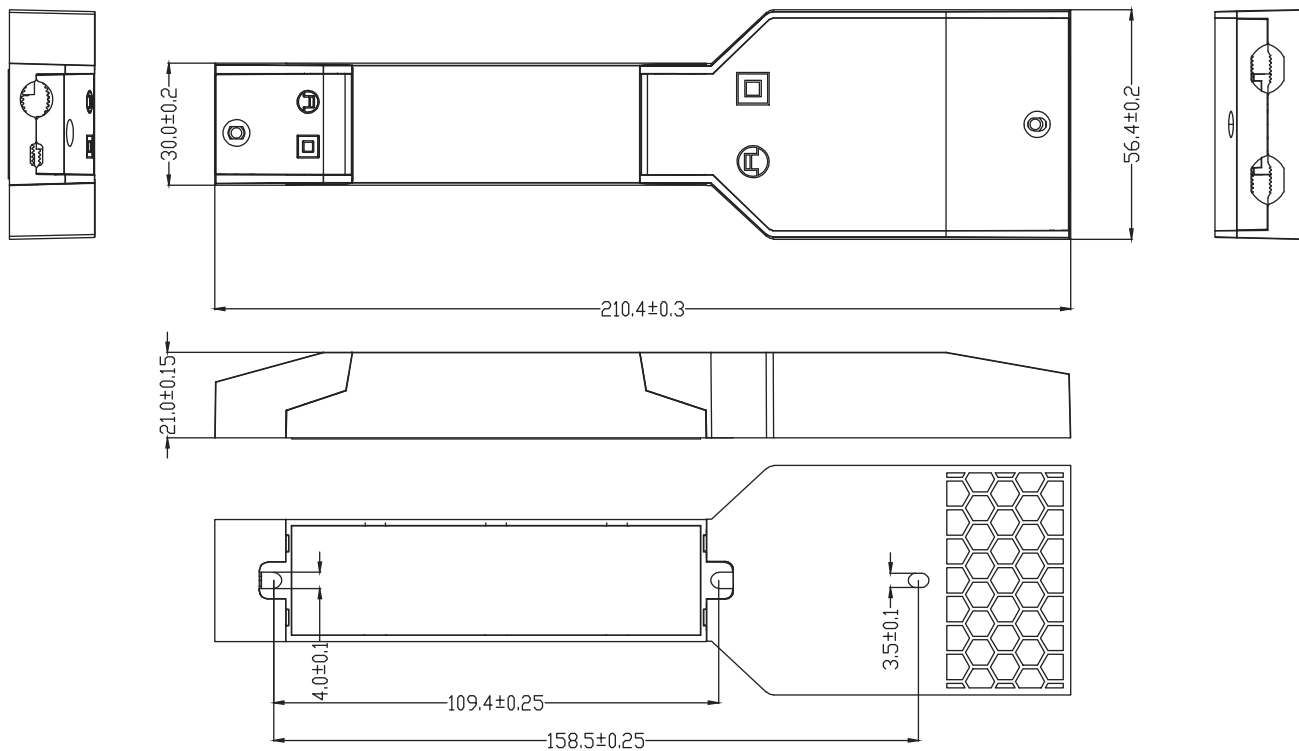
**Compatible Small Strain reliefs:SR\_CC15\_23\_36**

**Compatible Large Strain reliefs:SR\_CC15\_23\_36\_3POL**

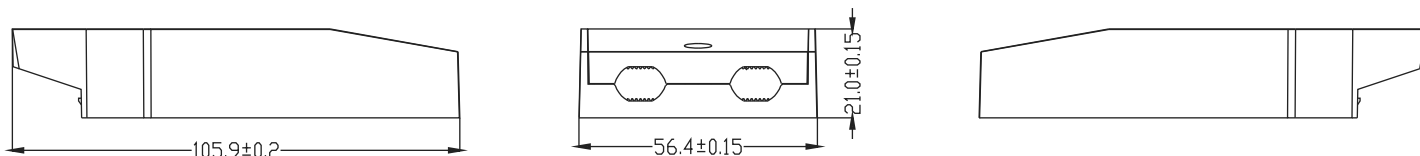
### Small Strain reliefs



### 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°C +50 °C

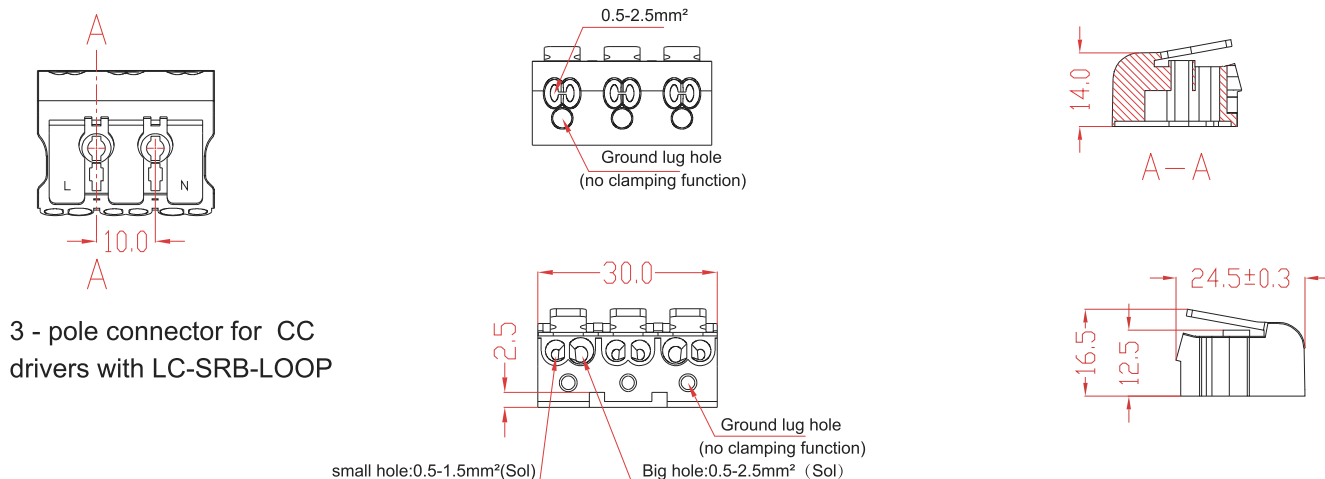
Storage temperature range: -20°C +85 °C

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.

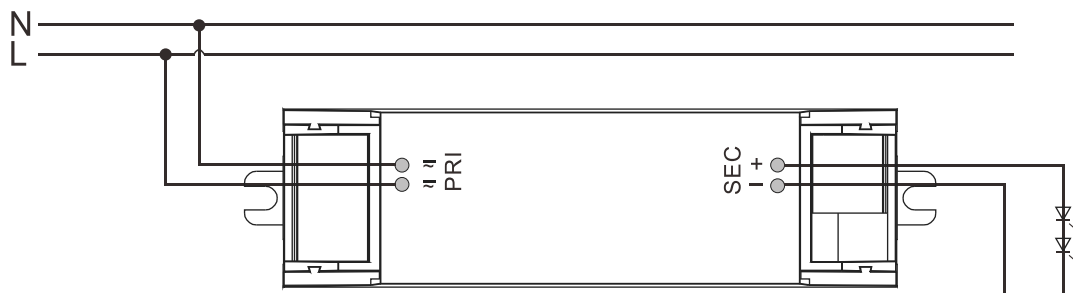
### Terminal



3 - pole connector for CC drivers with LC-SRB-LOOP

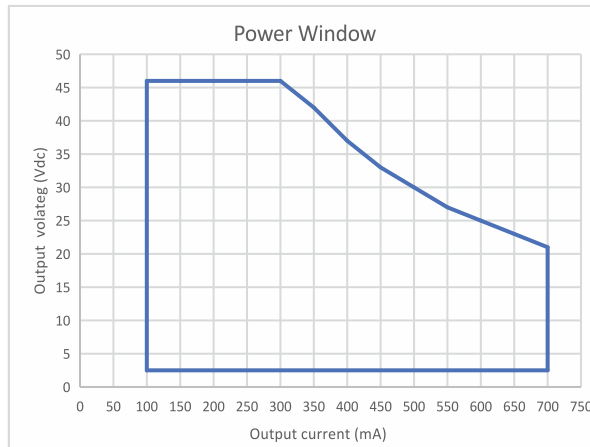
### 4. Wiring Diagram

220-240 V  
0/50/60 Hz

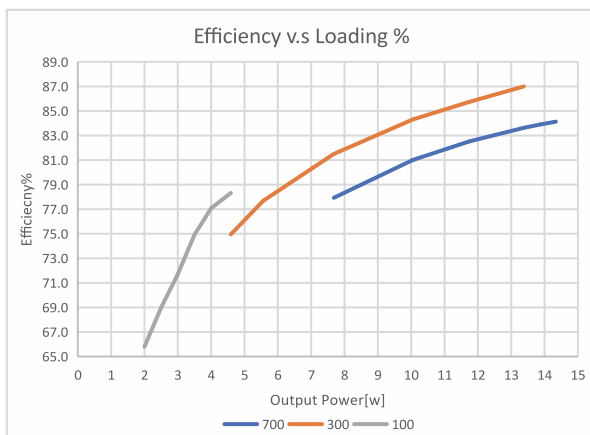


## 5. Electrical values

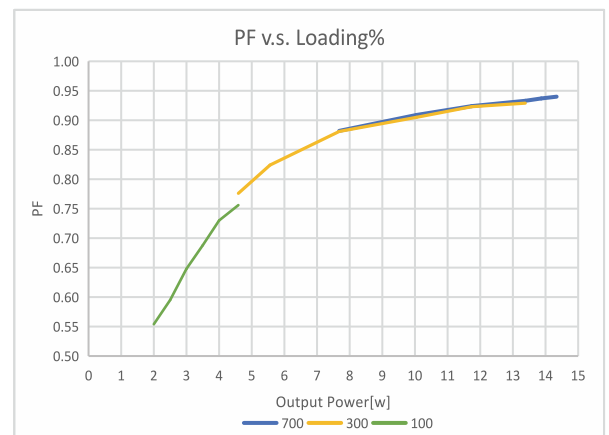
### 1. Operating power windows



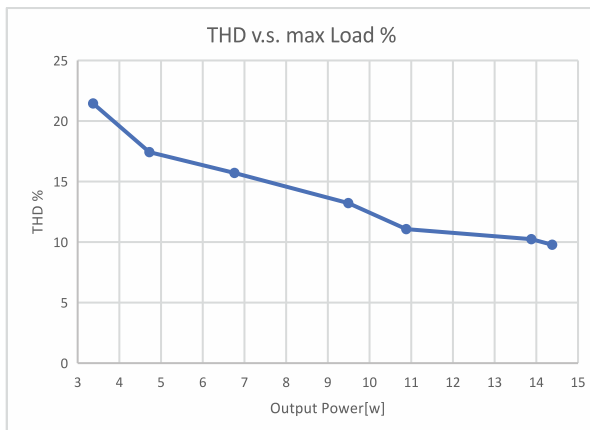
### 2. Efficiency v.s. Load



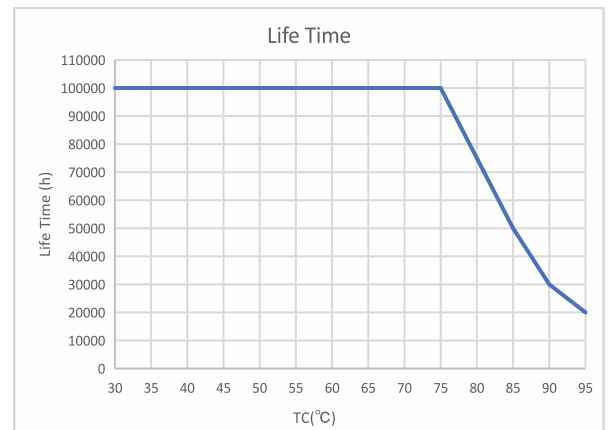
### 3. PF v.s. Load



### 4. THD v.s. Load

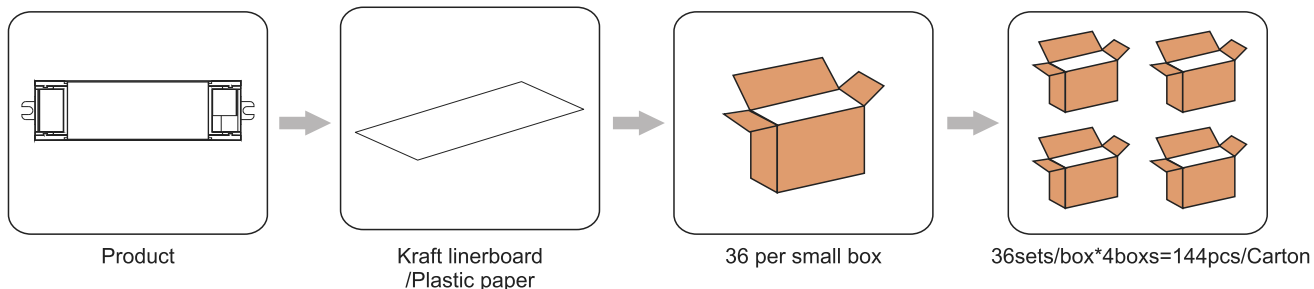


### 5. Life time



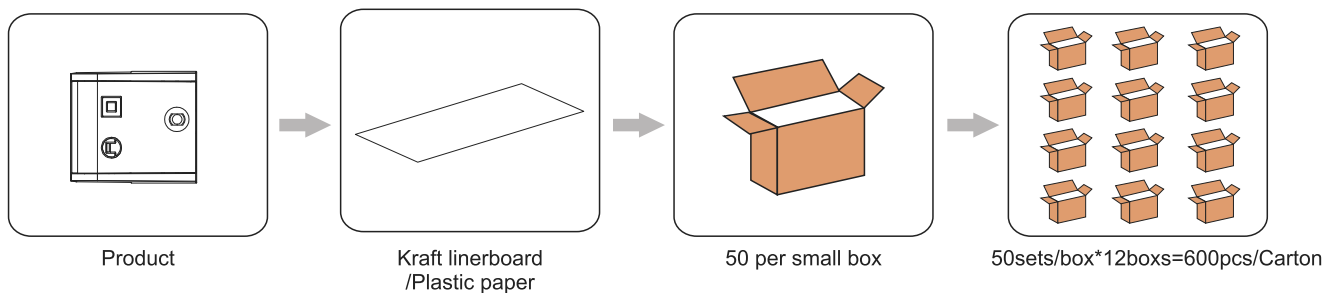
## 6. Packing information

### Built in type



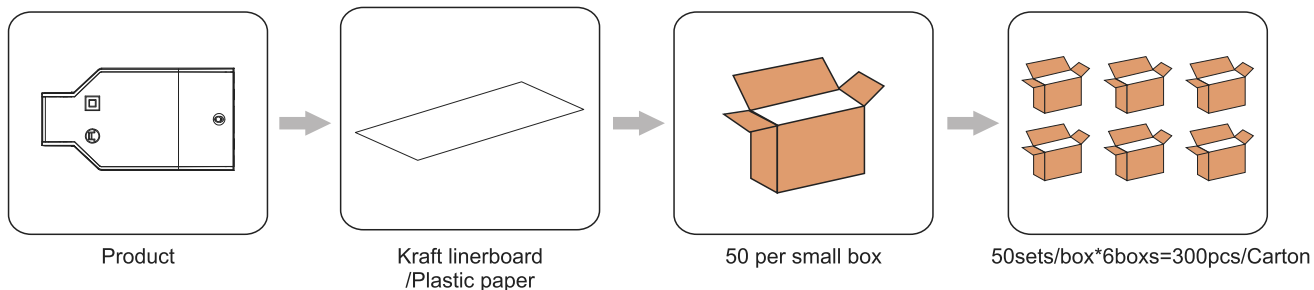
| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 310*235*230         | 144        | 0.075               | 10.92                     | 11.28                        |

### Small Strain reliefs



| 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



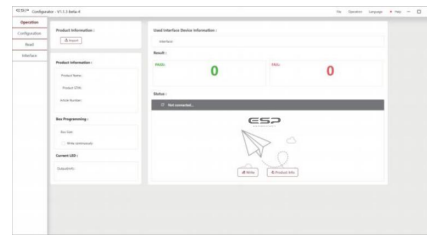
| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 375*315*385         | 300        | 0.041               | 12.34                     | 13.9                         |

## 7. 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 KGP NFC reader within few seconds.



| Product                                                                                                  | Description                                              | Interface        | Matching antenna                                                                                         | Zhaga approval | Usage                              |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------|----------------|------------------------------------|
| <br>ID CPR30+         | Desktop programmer                                       | USB              | Integrated                                                                                               | Yes            | Single Programming on Desktop      |
| <br>ID ISC.PRH101-USB | Handheld programmer                                      | USB              | Integrated                                                                                               | Yes            | Single Programming by Handheld     |
| <br>ID ISC.MR102-USB  | Middle range programmer, for connecting external antenna | USB              | RF-MANT12786<br>      | Yes            | Single Programming on Product line |
| <br>ID ISC.LR1002-E   | Long range programmer, for connecting external antenna   | USB,RS232,TCP/IP | ID ISC.ANT310/310<br> | Yes            | Multi Programming System           |



## APP NFC

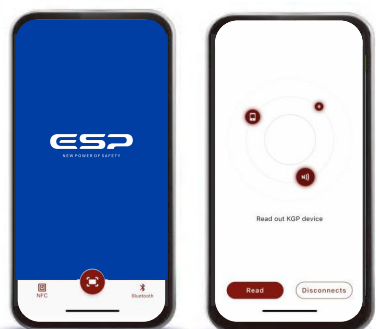
### Feature:

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.

### ICON



### Main



An iPhone smartphone without NFC requires the following devices to use it

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

## 8. REVISION HISTORY

| Date       | Revision | Remark                                                                  |
|------------|----------|-------------------------------------------------------------------------|
| 2024.04.15 | V0.01    | Label, Packing information, Electrical values, Dimension, update images |
|            |          |                                                                         |
|            |          |                                                                         |
|            |          |                                                                         |
|            |          |                                                                         |
|            |          |                                                                         |
|            |          |                                                                         |
|            |          |                                                                         |