



## CC44W300-1050 NFC

### Constant Current Driver

Model: CC44W300-1050 NFC



| Model             | Output Current | Input Current | Input Power | Output Power Range | PF    | Efficiency | Output Voltage | No load Voltage |
|-------------------|----------------|---------------|-------------|--------------------|-------|------------|----------------|-----------------|
| CC44W300-1050 NFC | 300-1050mA     | ≤0.29A        | 50.1W       | 0.75-44.10W        | ≥0.95 | 88%        | 2.5-45Vdc      | 59V             |

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

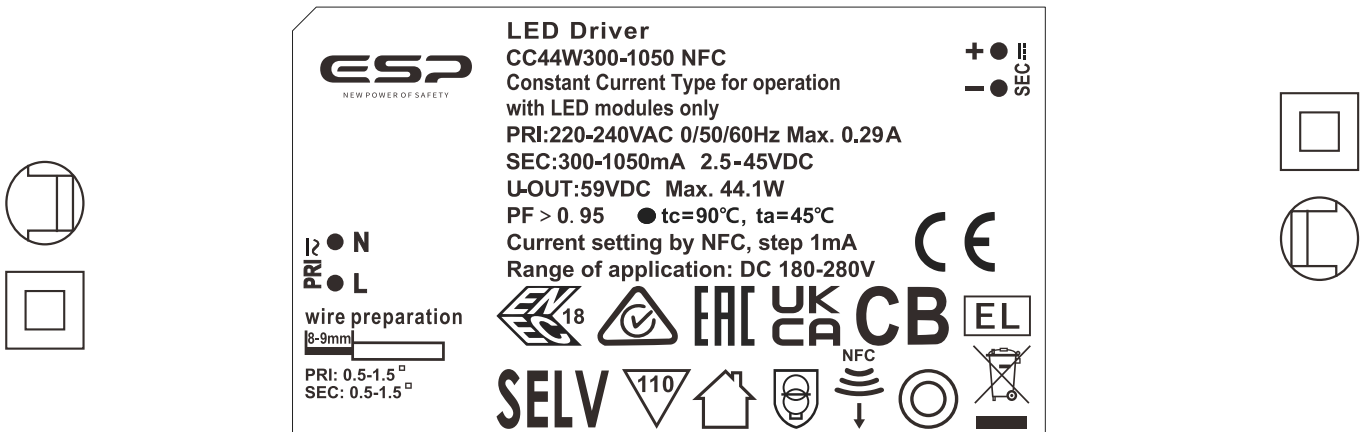
### 1. Parameters

| category | Item                              | Technical Norm                              |
|----------|-----------------------------------|---------------------------------------------|
| Features | Output Type                       | Constant Current                            |
|          | 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                     | ≤0.29A max                                  |
|          | Input Power                       | ≤50.1W max                                  |
|          | Power Factor                      | ≥0.95 (230VAC, full load)                   |
|          | THD                               | ≤7% (230VAC, full load)                     |
|          | No-load Power Consumption         | ≤0.5W (230VAC, full load)                   |
|          | Inrush Current                    | ≤9.4A/2.3us (230VAC, full load)             |
|          | Connected quantity of 10A Breaker | 20pcs/type A ; 33pcs/type B ; 53pcs/type C  |
|          | Connected quantity of 16A Breaker | 33pcs/type A; 53pcs/type B ; 85pcs/type C   |
|          | Connected quantity of 20A Breaker | 41pcs/type A; 66pcs/type B ; 106pcs/type C  |
|          | Output Voltage                    | 2.5-45VDC@300-900mA<br>2.5-42VDC@950-1050mA |
|          | No Load Voltage (Uout)            | 59VDC Max.                                  |

|                |                                     |                                                                                                                                                                                                                                  |
|----------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output         | Output Current                      | 300-1050mA (by NFC setting ,Factory set current of 300mA)                                                                                                                                                                        |
|                | Max. Output Power                   | 44.1W                                                                                                                                                                                                                            |
|                | Efficiency                          | ≥88% (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□ .+45°C                                                                                                                                                                                                                      |
|                | Ts/Storage Temperature              | -20□ .+90°C                                                                                                                                                                                                                      |
|                | Tc/Enclosure Temperature            | 90°C                                                                                                                                                                                                                             |
|                | Humidity                            | 10%....90%RH                                                                                                                                                                                                                     |
|                | Atmosphere                          | 86-108KPa                                                                                                                                                                                                                        |
| Construction   | Connection Method                   | Push-in Terminal                                                                                                                                                                                                                 |
|                | Installation                        | Built -in / Independent                                                                                                                                                                                                          |
|                | PRI Wire preparation                | PVC,VDE certificated,0.5-1.5□ ,with 8mm tin                                                                                                                                                                                      |
|                | SEC Wire preparation                | PVC,VDE certificated,0.5-1.5□ ,with 8mm tin                                                                                                                                                                                      |
|                | Dimension                           | 97.5*44*23mm (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                                                                                                                                                                                                          |

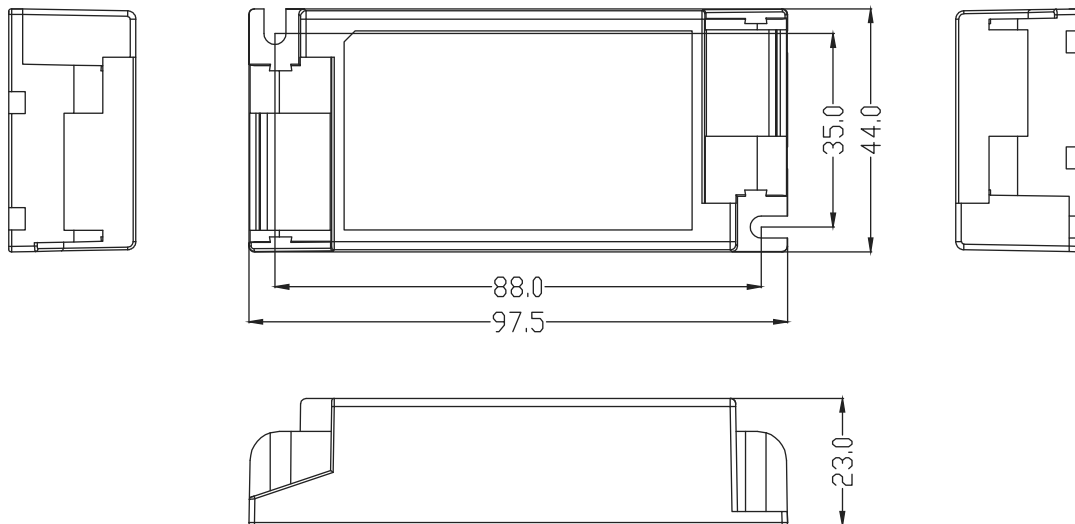
|                                                                                                                                                                                                                                                                 |           |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------|
| Others                                                                                                                                                                                                                                                          | RoHS      | 2011/65/EU                  |
|                                                                                                                                                                                                                                                                 | Life Time | 50000h    Tc=90℃            |
|                                                                                                                                                                                                                                                                 |           | 75000h    Tc=85℃            |
|                                                                                                                                                                                                                                                                 |           | 100000h    Tc=80℃           |
|                                                                                                                                                                                                                                                                 | Warranty  | 5years ,    F.R. < 10000ppm |
| <p>Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.</p> <p>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.</p> |           |                             |

## 2. Label



### 3. Dimension (Unit: mm)

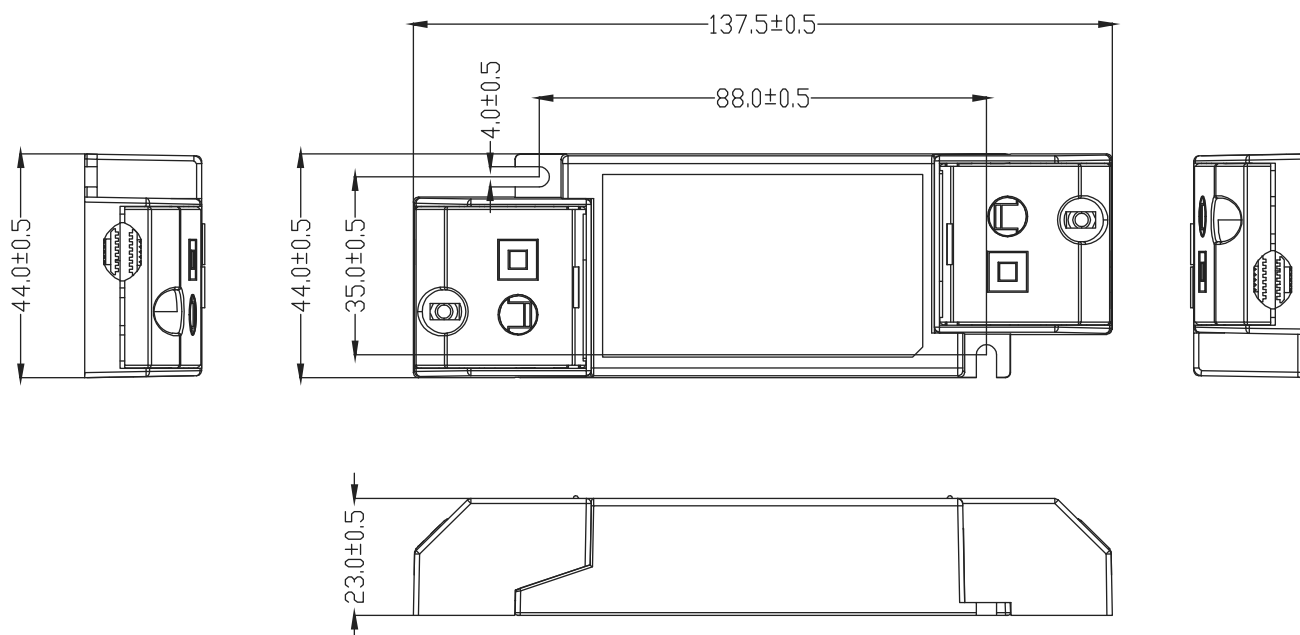
Built in type:



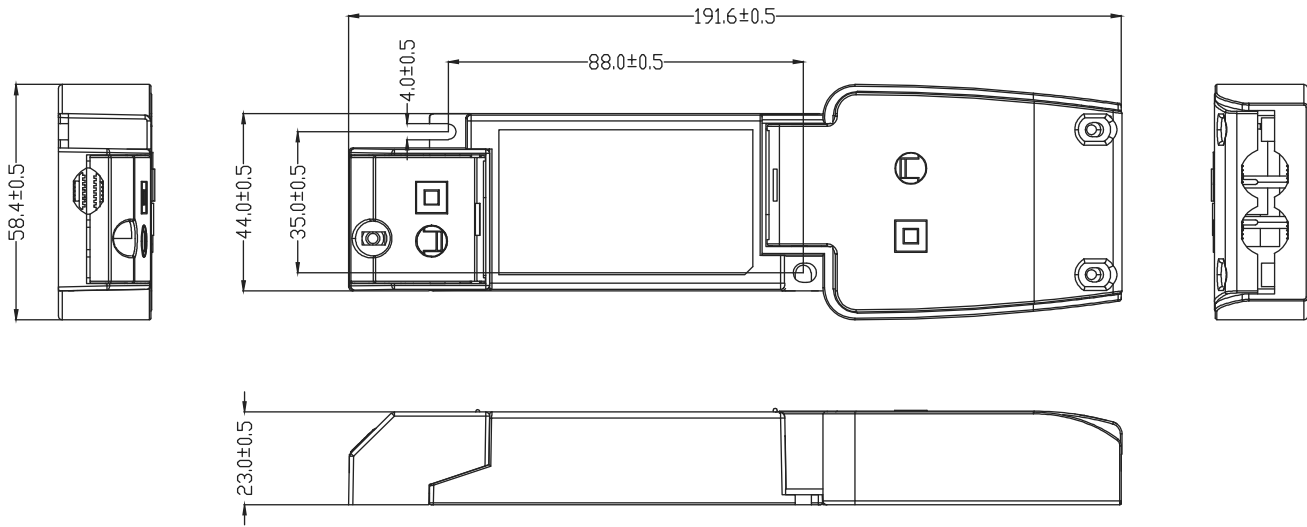
**Compatible Small Strain reliefs:SR\_CC21\_30\_44**

**Compatible Large Strain reliefs:SR\_CC21\_30\_44\_3POL**

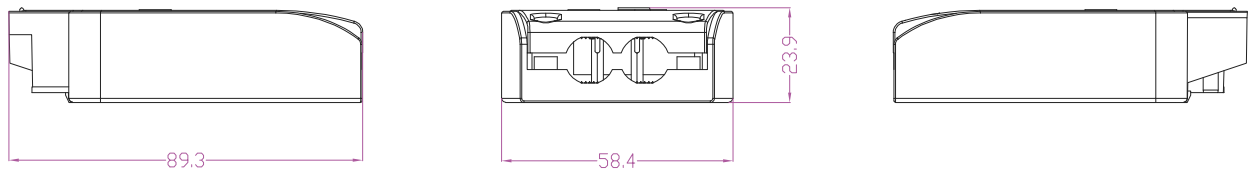
Small Strain reliefs



## Large Strain reliefs



## Large side cover specifications



Tolerance for dimensions  $\pm 0.1$  mm

## Mechanical, Operating & Storage Conditions

Driver cross-section dimensions:  $57.4-59.4 \times 22.9-24.9$  mm

Wire size:  $0.5 - 2.5 \text{ mm}^2$

Ambient temperature range:  $-25 \square +45 \text{ }^\circ\text{C}$

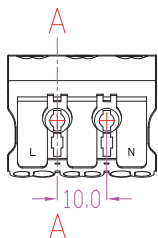
Storage temperature range:  $-40 \square +90 \text{ }^\circ\text{C}$

Assembly temperature range:  $+5 \dots +30 \text{ }^\circ\text{C}$

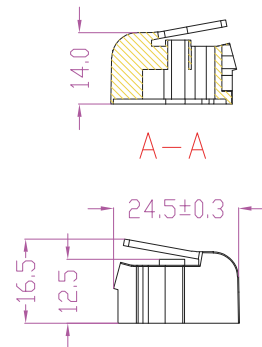
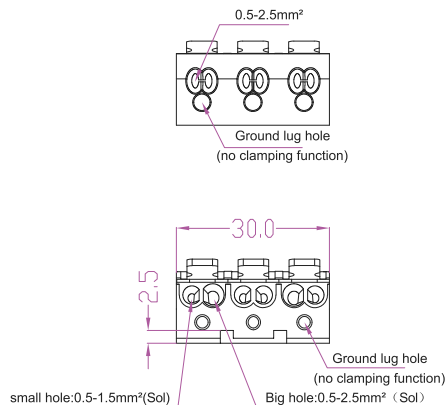
Do not store in wet or humid environment!

\* Unless otherwise stated in the driver datasheet (for independent installation).  
Note! Tc max temperature of the driver shall not be exceeded.

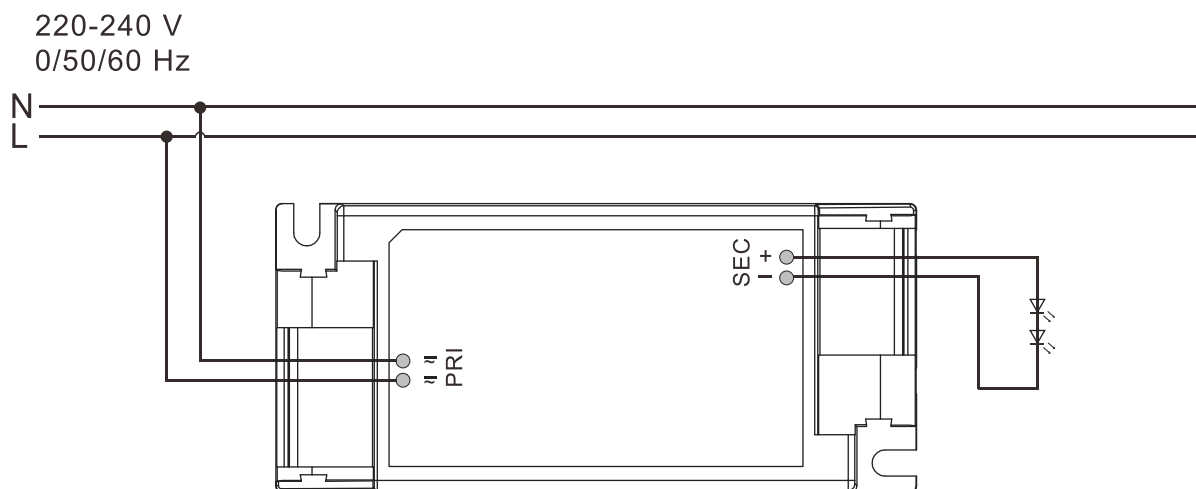
## Terminal



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

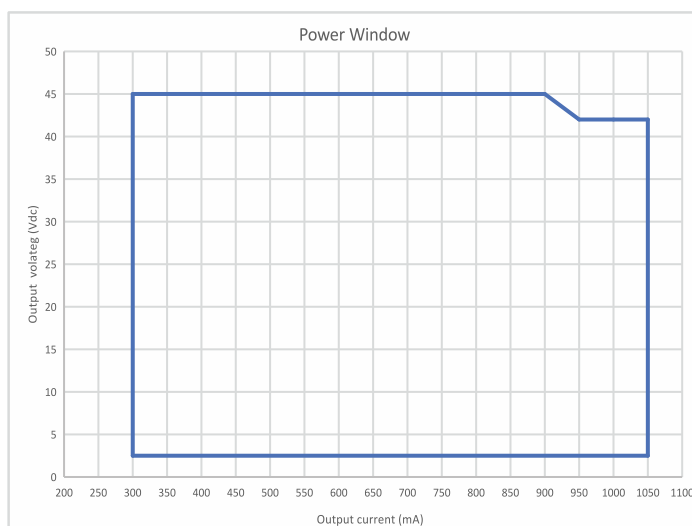


## 4. Wiring Diagram

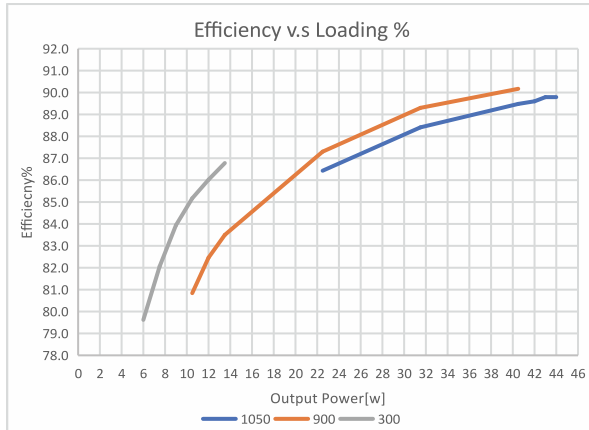


## 5. Electrical values

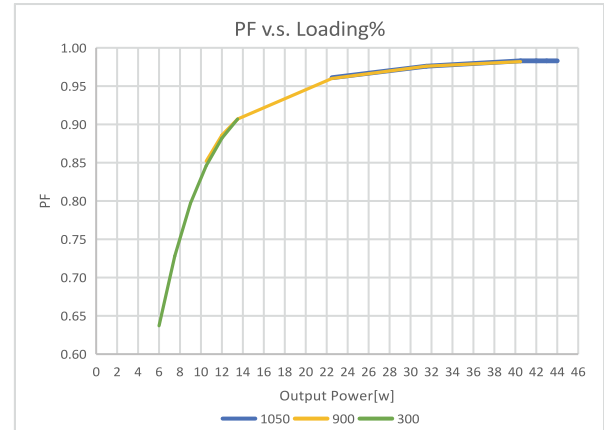
### 1. Operating power windows



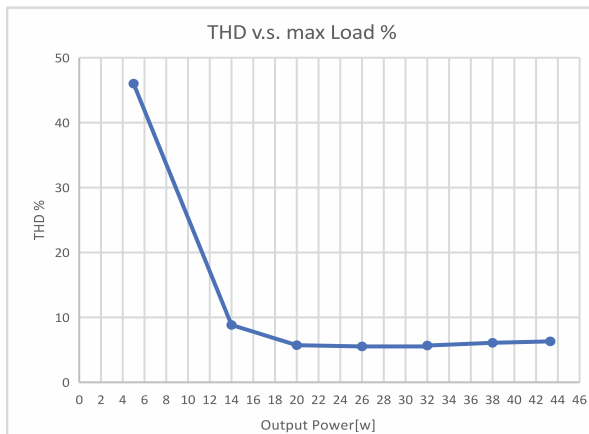
## 2. Efficiency v.s. Load



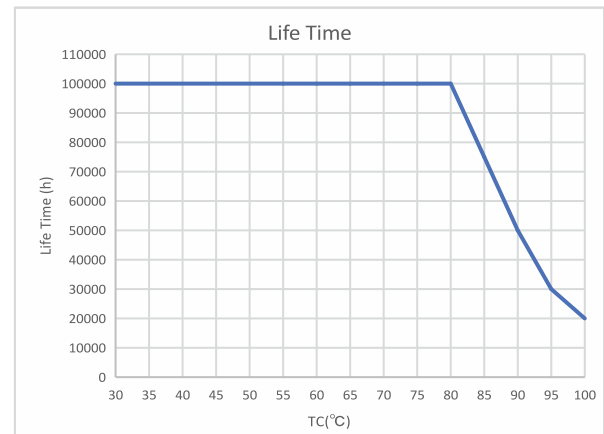
## 3. PF v.s. Load



## 4. THD v.s. Load

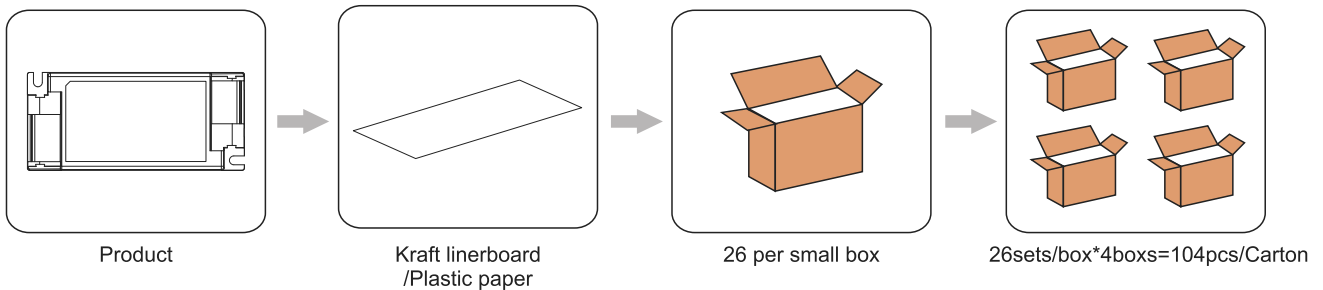


## 5. Life time



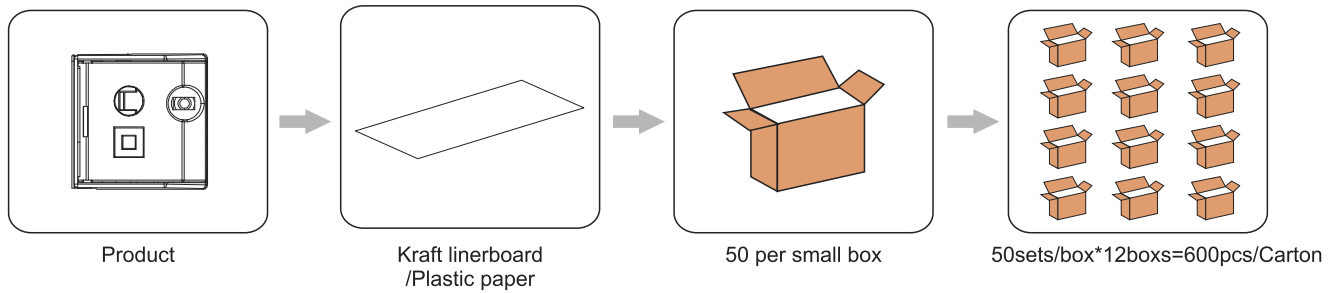
## 6. Packing information

Built in type



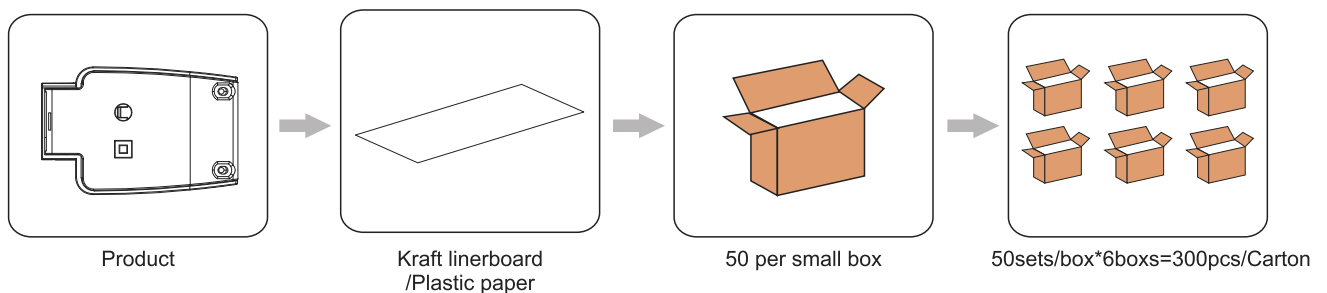
| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 310*235*230         | 104        | 0.120               | 12.48                     | 13.44                        |

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        | 0.009               | 5.64                      | 7.20                         |

Large Strain reliefs



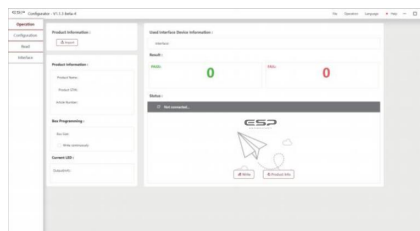
| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 375*315*385         | 300        | 0.047               | 14.25                     | 15.81                        |

## 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                              |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------|----------------|------------------------------------|
| 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

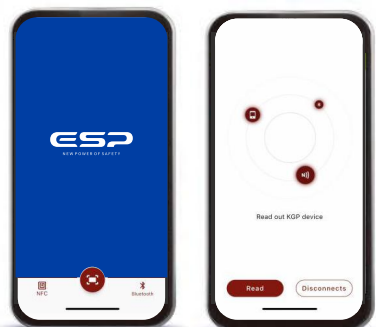
### Feature:

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.

#### 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                                                                      |
|------------|----------|-----------------------------------------------------------------------------|
| 2023.11.01 | V0.01    | Modify fonts, add NFC content, Dimension,update images, Packing information |
| 2024.04.15 | V0.02    | Label, Packing information, Electrical values, Dimension, update images     |
|            |          |                                                                             |
|            |          |                                                                             |
|            |          |                                                                             |
|            |          |                                                                             |
|            |          |                                                                             |