

## CC21W150-500



### Constant Current Driver

Model:CC21W150-500



| Model        | Output Current | Input Current | Input Power | Output Power Range | PF   | Efficiency | Output Voltage | No load Voltage |
|--------------|----------------|---------------|-------------|--------------------|------|------------|----------------|-----------------|
| CC21W150-500 | 150mA          | 0.05A         | 8.2W        | 2.3-6.8W           | 0.80 | 80%        | 20-45V         | 55V             |
|              | 200mA          | 0.06A         | 11.3W       | 3.0-9.0W           | 0.83 | 80%        | 15-45V         |                 |
|              | 250mA          | 0.07A         | 13.4W       | 3.8-11.3W          | 0.85 | 83%        |                |                 |
|              | 300mA          | 0.08A         | 15.9W       | 4.5-13.5W          | 0.92 | 83%        |                |                 |
|              | 350mA          | 0.09A         | 18.1W       | 5.3-15.8W          | 0.93 | 85%        |                |                 |
|              | 400mA          | 0.10A         | 20.7W       | 6.0-18.0W          | 0.95 | 86%        |                |                 |
|              | 450mA          | 0.11A         | 23.0W       | 6.8-20.3W          |      | 88%        |                |                 |
|              | 500mA          | 0.12A         | 25.6W       | 7.5-22.5W          |      |            |                |                 |

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

### 1. Parameters

| Category | Item                              | Technical Norm                             |
|----------|-----------------------------------|--------------------------------------------|
| Features | Output Type                       | Constant Current                           |
|          | IP Grade                          | IP20                                       |
|          | Insulation Class                  | Class II                                   |
| Input    | Rated Input Voltage               | 220-240VAC                                 |
|          | Range of Input Voltage            | 198-264VAC                                 |
|          | Range of DC Input Voltage         | 170-276VDC                                 |
|          | Frequency                         | 50/60Hz                                    |
|          | Input Current                     | ≤0.130A                                    |
|          | Input Power                       | ≤23W                                       |
|          | Power Factor                      | ≥0.90 (230VAC , fullload)                  |
|          | THD                               | ≤ 10% (230VAC , fullload)                  |
|          | No-load Power Consumption         | ≤0.5W @230VAC                              |
|          | Inrush Current                    | ≤21A/ 180us (230VAC,Full-load)             |
|          | Connected quantity of 10A Breaker | 19pcs/type A ; 31pcs/type B ; 50pcs/type C |
|          | Connected quantity of 16A Breaker | 31pcs/type A; 50pcs/type B ; 80pcs/type C  |
|          | Connected quantity of 20A Breaker | 39pcs/type A; 63pcs/type B ; 101pcs/type C |

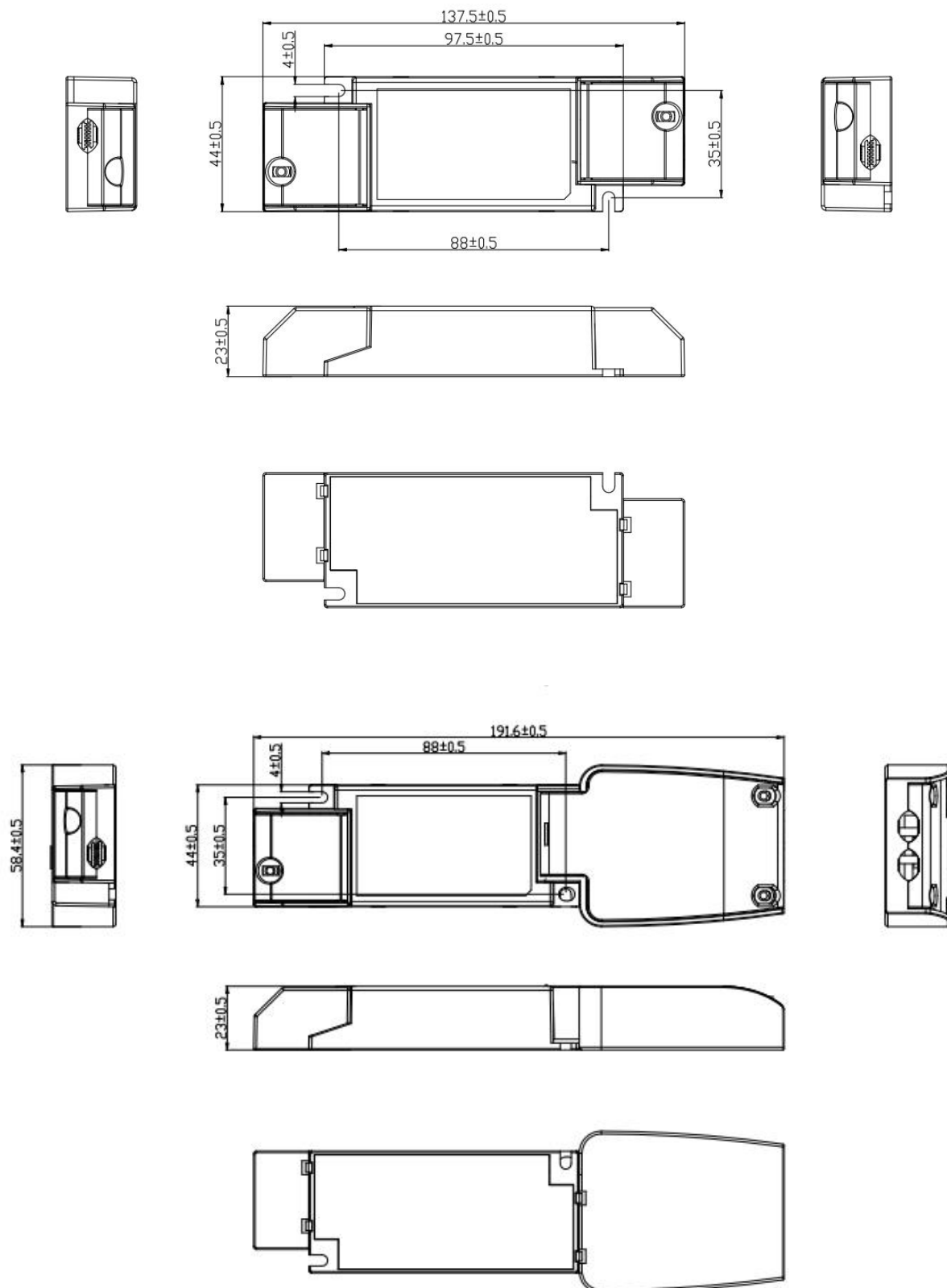
## CC21W150-500

|              |                          |                                                                   |
|--------------|--------------------------|-------------------------------------------------------------------|
| Output       | Current Accuracy         | ±5%                                                               |
|              | Max. Output Power        | 22.5W                                                             |
|              | Started Delay Time       | ≤0.5S (230VAC , full load)                                        |
|              | Current Ripple           | ±3% (Imax-Imin) / (Imax+Imin)                                     |
|              | PSTLM                    | ≤ 1                                                               |
|              | SVM                      | ≤0.4                                                              |
| Protection   | Short Circuit Protection | Auto Recovery                                                     |
|              | Overload Protection      | Auto Recovery                                                     |
|              | No-load Protection       | Auto Recovery                                                     |
|              | Insulation voltage       | I/P to O/P , 3KVac/1min                                           |
|              | Insulation resistance    | >100M ohm @ 500VDC                                                |
|              | Leakage current          | I/P to O/P < 250 μA                                               |
| Environment  | Ta/Operation Temperature | 7-22.5W: -20 ... +45°C;                                           |
|              | Ts/Storage Temperature   | -40 ... +85°C                                                     |
|              | Tc/Enclosure Temperature | 85°C                                                              |
|              | Humidity                 | 10%.... 90%RH                                                     |
|              | Atmosphere               | 86-108KPa                                                         |
| Construction | Connection Method        | Push-in Terminal                                                  |
|              | Installation             | Build-in & Independent                                            |
|              | PRI Wire preparation     | PVC, VDE certificated, 0.5- 1.5mm <sup>2</sup> , with 8mm tin     |
|              | SEC Wire preparation     | PVC, VDE certificated, 0.5- 1.5mm <sup>2</sup> , with 8mm tin     |
|              | Dimension                | Independent:137.5*44*23mm (L*W*H)<br>Built in:97.5*44*23mm(L*W*H) |
| Standards    | Certification            | CE/ENEC                                                           |
|              | Safety Standards         | EN61347- 1,EN61347-2- 13                                          |
|              | EMC Standards            | EN55015,EN61000-3-2,EN61000-3-3,EN61547                           |
|              | Performance              | EN62384                                                           |
|              | Surge                    | L-N/ 1.5KV                                                        |
| Others       | RoHS                     | Complied to 2011/65/EU                                            |
|              | Life Time                | 50000h Tc=80°C                                                    |
|              |                          | 75000h Tc=75°C                                                    |
|              |                          | 100000h Tc=70°C                                                   |
|              | Warranty                 | 5years , F.R. <10%                                                |

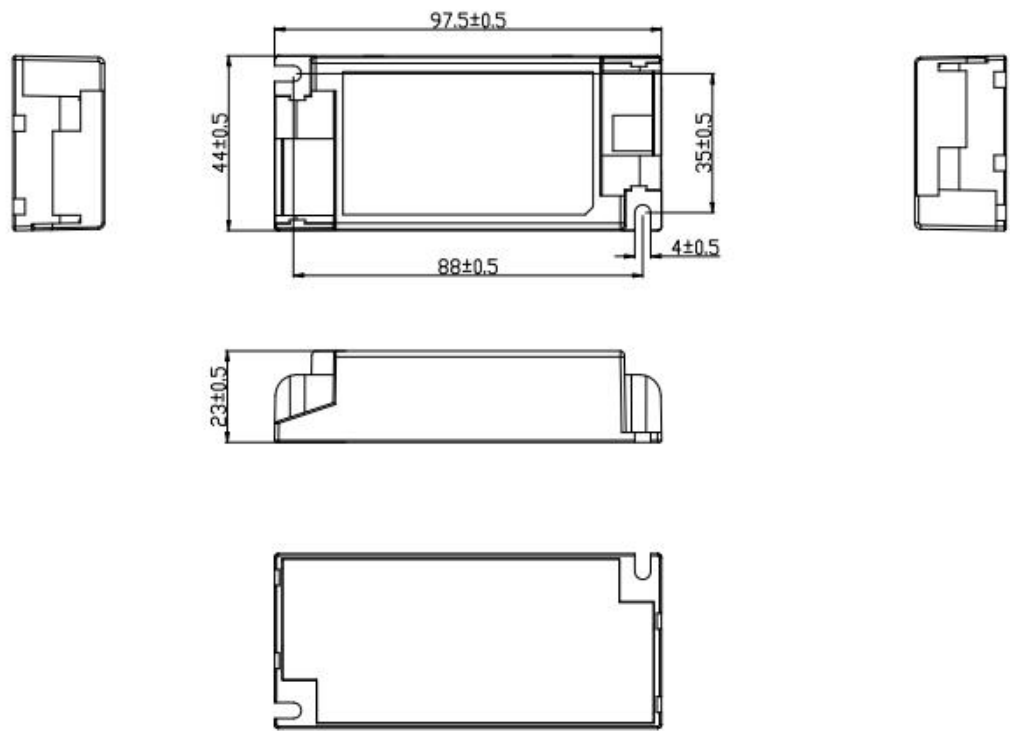
### Remark:

- 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.
3. Please make sure Tc under Lifetime condition when long term operate under DC input.
4. Light output level in DC operation: (factory default = 100 %, EOFi = 1).

### 2. Dimension



Built in type:



3. Label

**KGP**

KGP Electronics GmbH  
Hueckstraße 19  
DE-58511 Lüdenscheid

**CC21W150-500**

Constant Current LED Power Supply

| PIN1 | PIN2 | PIN3 | I <sub>rated</sub><br>[mA] | P <sub>rated</sub><br>[W] | U <sub>rated</sub><br>[V] | U <sub>N</sub> /f <sub>N</sub> | I <sub>N</sub> [A] | t <sub>a</sub> [°C] | t <sub>c</sub> [°C] | λ    |
|------|------|------|----------------------------|---------------------------|---------------------------|--------------------------------|--------------------|---------------------|---------------------|------|
| OFF  | OFF  | OFF  | 150                        | 6.8                       | 20-45                     | 220-240V<br>50/60Hz            | 0.05               | -20...+45           | 85                  | 0.80 |
| ON   | OFF  | OFF  | 200                        | 9.0                       | 0.06                      |                                | 0.83               |                     |                     |      |
| OFF  | ON   | OFF  | 250                        | 11.3                      | 0.07                      |                                | 0.85               |                     |                     |      |
| ON   | ON   | OFF  | 300                        | 13.5                      | 0.08                      |                                | 0.92               |                     |                     |      |
| OFF  | OFF  | ON   | 350                        | 15.8                      | 0.09                      |                                | 0.93               |                     |                     |      |
| ON   | OFF  | ON   | 400                        | 18.0                      | 0.10                      |                                | 0.95               |                     |                     |      |
| OFF  | ON   | ON   | 450                        | 20.3                      | 0.11                      |                                |                    |                     |                     |      |
| ON   | ON   | ON   | 500                        | 22.5                      | 0.12                      |                                |                    |                     |                     |      |

PRI~

● L

● N

OFF→ON

1

2

3

05

M

M

CE

EL

EL

EL

wirepreparation

8mm

wire 0.5-1.5

Made in China

SEC = U<sub>out</sub> = 55V LED Only SELV

### 4. Packing information

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 398*230*150         | 100        | 0.084               | 8.4                       | 9.6                          |

#### Small side cover

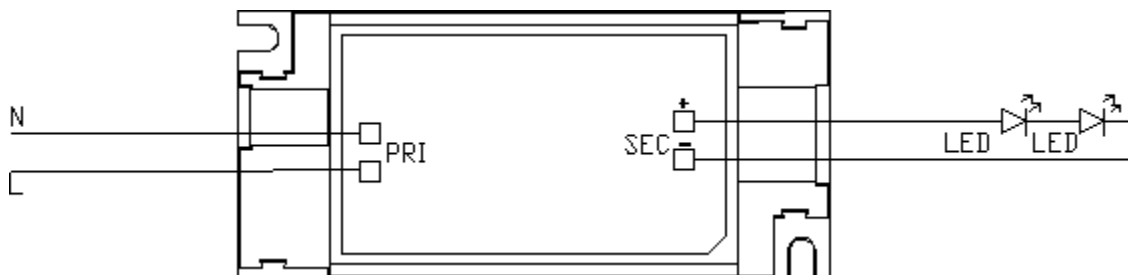
| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 370*365*295         | 1000       | 0.0087              | 8.7                       | 10                           |

#### Large side cover

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| 375*305*295         | 200        | 0.041               | 8.2                       | 9.4                          |

### 5. Wiring Diagram

Built in type:



### 6. Revision history

| Date       | Version | Remark                   |
|------------|---------|--------------------------|
| 2023-06-27 | V1.0    | Initial release.         |
| 2023-07-19 | V2.0    | Secondary version        |
| 2023-08-18 | V3.0    | Font & format adjustment |
| 2023-08-31 | V4.0    | Change Tc to 85°C        |