

| Model                 | Output Current | Input Current | Input Power | Output Power Range | PF     | Efficiency | Output Voltage | No load Voltage |
|-----------------------|----------------|---------------|-------------|--------------------|--------|------------|----------------|-----------------|
| CC48W1050-1200CG DALI | 1050mA         | ≐ 0.27A       | ≐ 50W       | 29.4-42W           | ≐ 0.92 | ≐ 87%      | 28-40V         | 55V             |
|                       | 1100mA         | ≐ 0.29A       | ≐ 51.8W     | 30.8-44W           |        |            |                |                 |
|                       | 1150mA         | ≐ 0.3A        | ≐ 54W       | 32.2-46W           | ≐ 0.95 | ≐ 88%      |                |                 |
|                       | 1200mA         | ≐ 0.31A       | ≐ 56.8W     | 33.6-48W           |        |            |                |                 |

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

### 1. Parameters

| category       | Item                              | Technical Norm                                                                          |
|----------------|-----------------------------------|-----------------------------------------------------------------------------------------|
| Features       | Output Type                       | Constant Current                                                                        |
|                | Dimming Type                      | DALI 2                                                                                  |
|                | Output Features                   | Isolation                                                                               |
|                | IP Grade                          | IP20                                                                                    |
|                | Insulation Class                  | Class II                                                                                |
| Input          | Rated Input Voltage               | 220-240VAC or 230-280VDC                                                                |
|                | Range of Input Voltage            | 198-264VAC                                                                              |
|                | Frequency                         | 50/60Hz                                                                                 |
|                | Input Current                     | $\leq 0.31A$ (230VAC, full load)                                                        |
|                | Input Power                       | $\leq 56.8W$ (230VAC, full load)                                                        |
|                | Power Factor                      | $\geq 0.95$ (230VAC, full load)                                                         |
|                | THD                               | $\leq 15\%$ (230VAC, full load)                                                         |
|                | No-load Power Consumption         | $\leq 0.5W$ @230VAC (Dim to off)                                                        |
|                | Inrush Current:                   | $\leq 25A/300us$ (230VAC, full load)                                                    |
|                | Connected quantity of 16A Breaker | 19pcs/type B ; 32pcs / type C @ 230Vac                                                  |
| Output         | Max. Output Power                 | 48W                                                                                     |
|                | Current Ripple ( $<120Hz$ )       | $\pm 5\%$ ( $I_{max}-I_{min}/(I_{max}+I_{min})$ )                                       |
|                | PstLM                             | $\leq 1$                                                                                |
|                | SVM                               | $\leq 0.4$                                                                              |
|                | Current Accuracy                  | $\pm 5\%$                                                                               |
|                | Started Delay Time                | $\leq 0.5S$ (230VAC, full load)                                                         |
| Control Method | Secondary PUSH dimming            | Secondary PUSH dimming (Max. lead wire length: 20m, same port of DALI)                  |
|                | DALI function                     | DALI dimming (Max. lead wire length: 300m) logarithm or linear dimming curve selectable |

|              |                          |                                                                                                                             |
|--------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|              | Dimming range            | DALI dimming: 1%-100% , Dim to off .                                                                                        |
| Protection   | Short Circuit Protection | Auto Recovery                                                                                                               |
|              | Overload Protection      | Auto Recovery                                                                                                               |
|              | No-load Protection       | Auto Recovery                                                                                                               |
|              | Insulation voltage       | 3000V 5mA 60S between P-S                                                                                                   |
|              | Insulation resistance    | >100M ohm @ 500VDC                                                                                                          |
|              | Leakage current          | < 250μA, I/P to O/P or I/P to PE @230V input                                                                                |
| Environment  | Ta/Operation Temperature | -20....+50℃                                                                                                                 |
|              | Ts/Storage Temperature   | -40....+85℃                                                                                                                 |
|              | Tc/Enclosure Temperature | 85℃                                                                                                                         |
|              | Humidity                 | 10%....90%RH                                                                                                                |
|              | Atmosphere               | 86-108KPa                                                                                                                   |
| Construction | Connection Method        | Push-in Terminal                                                                                                            |
|              | Installation             | Build-in & Independent                                                                                                      |
|              | PRI Wire preparation     | 0.75-1.5 <sup>□</sup>                                                                                                       |
|              | SEC Wire preparation     | 0.5-0.75 <sup>□</sup>                                                                                                       |
|              | Dimension                | Independent:172.3*44*30mm (L*W*H)<br>Built in:132.5*44*30.3mm(L*W*H)                                                        |
| Standards    | Certification            | CE ENEC SAA                                                                                                                 |
|              | Safety Standards         | EN61347-2-13:2014/A1:2017<br>EN62384:2006/A1:2009,EN 61347-1:2015/A1:2021<br>AS61347.2.13:2018<br>AS/NZS61347.1:2016 Inc A1 |
|              | EMC Standards            | EN IEC 55015:2019<br>EN IEC 55015:2019/A11:2020<br>EN IEC 61000-3-2:2019<br>EN 61000-3-3:2013/A1:2019<br>EN61547:2009       |
|              | Performance              | EN62384                                                                                                                     |
|              | Surge                    | L-N/2KV                                                                                                                     |
|              |                          |                                                                                                                             |
| Others       | RoHS                     | complied to 2011/65/EU                                                                                                      |
|              | Life Time                | 50000h Ta /Tc                                                                                                               |
|              | 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.

### 2. Label

**KGP**  
KGP Electronics GmbH  
Hueckstraße 19  
DE-58511 Lüdenscheid

**DALI 2**

■ DA  
■ DA  
■ N  
■ L

PUSH-CONTROL

PR1

**CC48W1050-1200CG DALI**  
**LED Dimmable Driver**

● tc

| PIN1 | PIN2 | I <sub>rated</sub> [mA] | P <sub>rated</sub> [W] | U <sub>range</sub> [V] | U <sub>N</sub> / f <sub>N</sub> | I <sub>N</sub> [A] | ta [°C]   | tc [°C] | λ     |
|------|------|-------------------------|------------------------|------------------------|---------------------------------|--------------------|-----------|---------|-------|
| OFF  | OFF  | 1050                    | 42                     | 28-40                  | 220-240V<br>50/60Hz             | 0.27               | -20...+50 | 85      | 0.92C |
| OFF  | ON   | 1100                    | 44                     |                        |                                 | 0.29               |           |         | 0.95  |
| ON   | OFF  | 1150                    | 46                     |                        |                                 | 0.3                |           |         |       |
| ON   | ON   | 1200                    | 48                     |                        |                                 | 0.31               |           |         |       |

CE EAC SELV

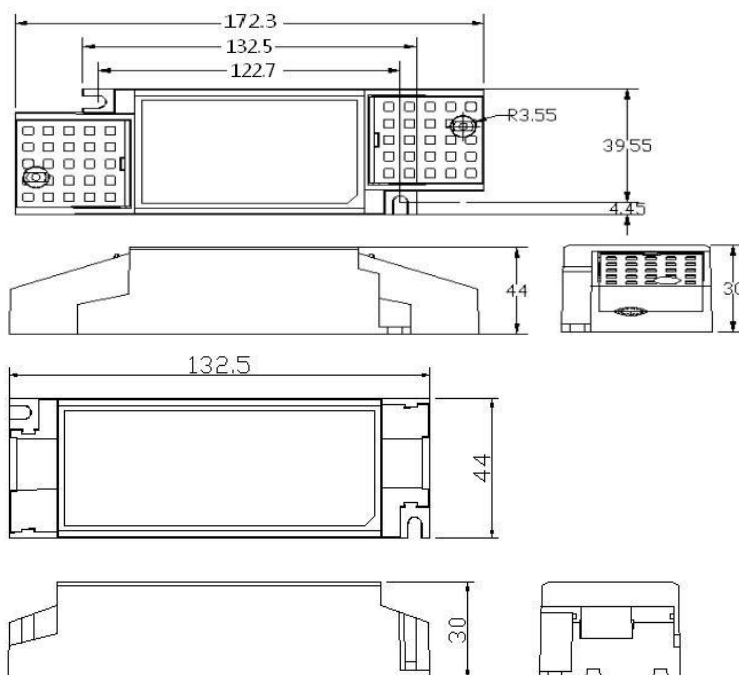
I ■  
+ ■

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

8mm  
PRI 0.75-1.5  
SEC 0.5-1.5

### 3. Dimension (Unit: mm)

Independent type:



Built in type:

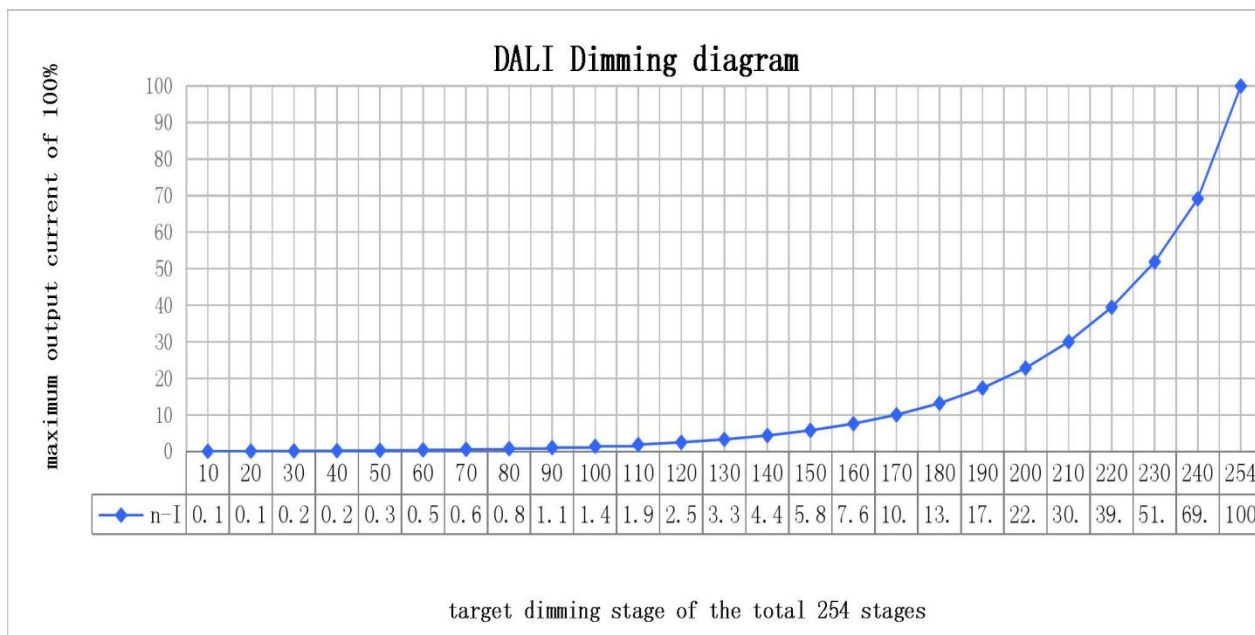
### 4. DALI dimming curve

#### 4.1 formula for DALI dimming.

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

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

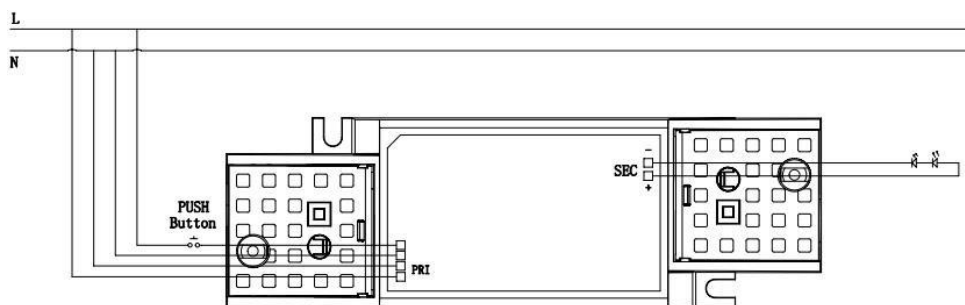
X(n) means the percent of the maximum output current.

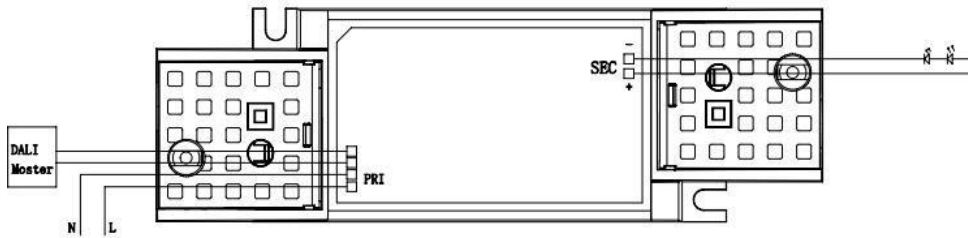


### 5. Packing information

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/<br>Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|------------------------|---------------------------|------------------------------|
| 450*240*200         | 65         | 0.16                   | 10.4                      | 12.05                        |

### 6. Wiring Diagram



**Fig. A: Push Dimming****Fig. B: DALI Dimming**

## 7. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)