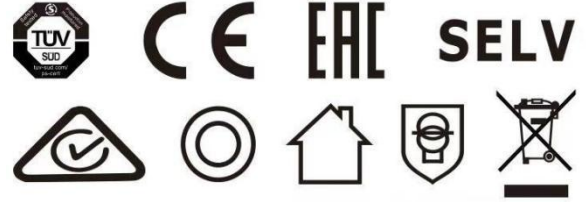




Constant Current Dimmable Driver

Model:RCXXWXXX Triac



| Model | Output Current | Input Current | Input Power | Output Power Range | PF | Efficiency | Output Voltage | No load Voltage |
|----------------|----------------|---------------|-------------|--------------------|------|------------|----------------|-----------------|
| RC10W250 Triac | 250mA | 0.1A | 14W | 6.75-10W | 0.92 | 83% | 27-40V | 55V |
| RC10W300 Triac | 300mA | 0.1A | 14W | 5.7-9W | 0.92 | 83% | 19-30V | 45V |
| RC10W350 Triac | 350mA | 0.1A | 14W | 6.65-9.8W | 0.92 | 83% | 19-28V | 40V |
| RC10W500 Triac | 500mA | 0.1A | 14W | 6.5-10W | 0.92 | 83% | 13-20V | 35V |
| RC12W300 Triac | 300mA | 0.12A | 18W | 9-12W | 0.92 | 83% | 30-40V | 55V |
| RC13W350 Triac | 350mA | 0.12A | 18W | 10.5-13.3W | 0.92 | 83% | 30-38V | 50V |
| RC15W300 Triac | 300mA | 0.12A | 19W | 10.8-15W | 0.92 | 83% | 36-50V | 65V |
| RC15W350 Triac | 350mA | 0.12A | 19W | 9.45-14.7W | 0.92 | 83% | 27-42V | 55V |
| RC15W400 Triac | 400mA | 0.12A | 19W | 10.8-15.6W | 0.92 | 83% | 27-39V | 55V |
| RC15W500 Triac | 500mA | 0.12A | 19W | 9.5-15W | 0.92 | 83% | 19-30V | 45V |
| RC15W600 Triac | 600mA | 0.12A | 19W | 7.8-12.6W | 0.92 | 83% | 13-21V | 35V |
| RC15W700 Triac | 700mA | 0.12A | 19W | 9.1-14.7W | 0.92 | 83% | 13-21V | 35V |

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

1. Parameters

| category | Item | Technical Norm |
|----------|------------------------|--|
| Features | Output Type | Constant Current |
| | Dimming Type | Phase dimming |
| | Dimming Range | 10%-100% |
| | IP Grade | IP20 |
| | Insulation Class | Class II |
| Input | Rated Input Voltage | 220-240VAC_stable |
| | Range of Input Voltage | 198-264VAC_stable or 180-280VDC_stable |
| | Frequency | 50/60Hz |
| | Input Current | ≤0.12A |
| | Input Power | ≤ 19W |
| | Power Factor | ≥0.92 (230VAC,full load) |

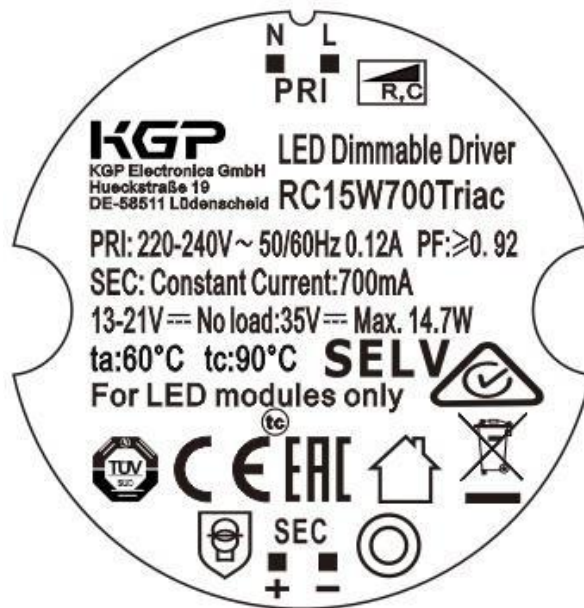
| | | |
|---|---------------------------|---|
| | No-load Power Consumption | ≤1W @230VAC |
| Output | Current Accuracy | ±5% |
| | Max. Output Power | 15W |
| | Started Delay Time | ≤0.5S (230VAC,full load) |
| | Current Ripple(< 120 Hz) | ±5% (Imax-Imin) / (Imax+Imin) |
| | PstLM | ≤1 |
| | SVM | ≤0.4 |
| 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 < 250μA |
| Environment | Ta/Operation Temperature | -20....+60°C |
| | Ts/Storage Temperature | -40....+85°C |
| | Tc/Enclosure Temperature | 90°C |
| | Humidity | 10%....90%RH |
| | Atmosphere | 86-108KPa |
| Construction | Connection Method | Direct Lead |
| | Installation | Build-in |
| | PRI Wire preparation | 0.5-1.5 [□] |
| | SEC Wire preparation | 0.5-1.5 [□] |
| | Dimension | Φ50X21mm (R*H) |
| Standards | Certification | TUV、CE、SAA |
| | Safety Standards | EN61347-1:2015,EN61347-2-13:2014/A1:2017, EN62493:2015,AS/NZS IEC61347.2.13:2018, AS/NZS61347.1:2016 Inc AI |
| | EMC Standards | EN IEC 55015:2019,EN IEC 55015:2019/A11:2019, EN IEC 61000-3-2:2019, EN 61000-3-3:2013/A1:2019,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 |
| | Noise | 15cm <28dB |
| 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. Trailing Edge Dimmer list approved by KGP

| Manufacturer | Model | Q'ty of parallel connection |
|--------------|--------------|-----------------------------|
| ABB | 6519 U | 15 |
| ABB | 6526 U | 13 |
| JUNG | 1224 LED UDE | 14 |
| Berker | 2861 | 10 |
| JUNG | 254 UDIE 1 | 10 |
| JUNG | 225 TDE | 14 |
| EGANT | U321V2 | 15 |
| Schneider | SBD200LED | 13 |
| Schneider | SBD315RC | 14 |
| Merten | SBD200LED | 13 |
| Berker | 2874 | 12 |

Leading Edge Dimmer list only on request -/ or confirmed by KGP Electronics

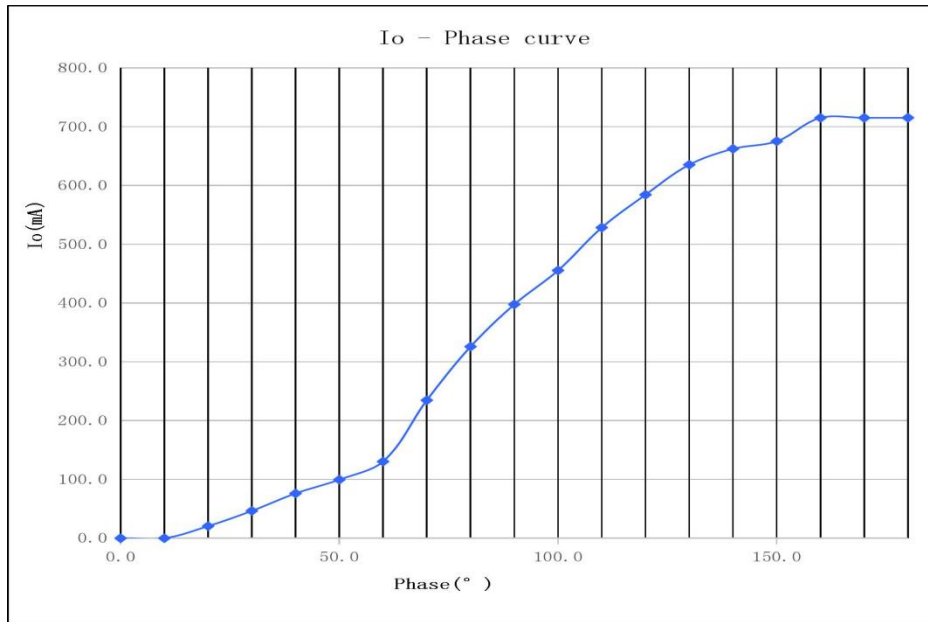
3. Label (For example)



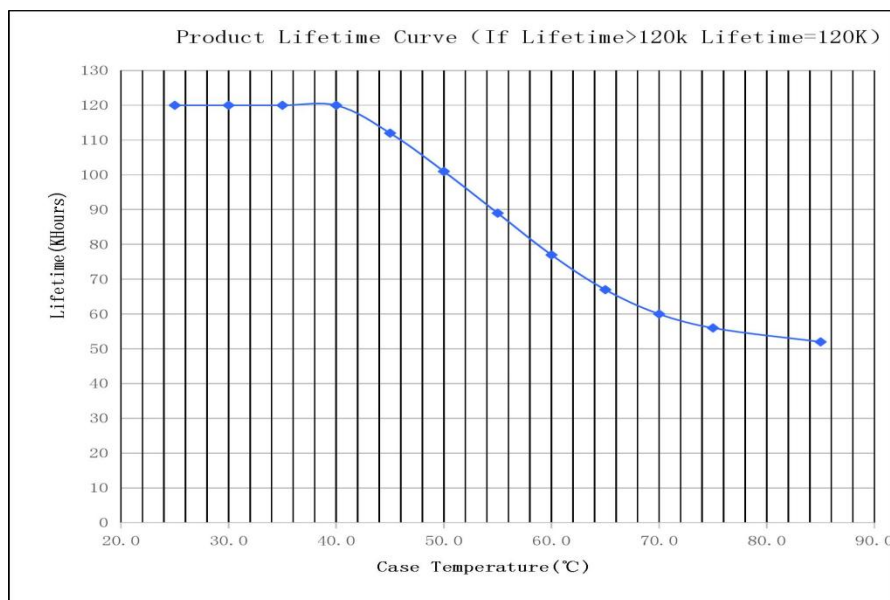
4. Connected quantities of different current Breaker

| TYPE | Connected quantities of different current Breaker | | | | | | Input Voltage | Inrush Current | Time |
|--------|---|--------------------|--------------------|--------------------|------------------|------------------|---------------|----------------|------|
| | current (A) | 10 | 13 | 16 | 20 | 25 | | | |
| | Installation wire diameter | 1.5mm ² | 2.5mm ² | 2.5mm ² | 4mm ² | 4mm ² | | | |
| TYPE B | 60 | 78 | 96 | 120 | 150 | @230VAC | 10 | 400us | |
| TYPE C | 96 | 125 | 154 | 192 | 240 | | | | |
| TYPE D | 154 | 200 | 246 | 307 | 384 | | | | |

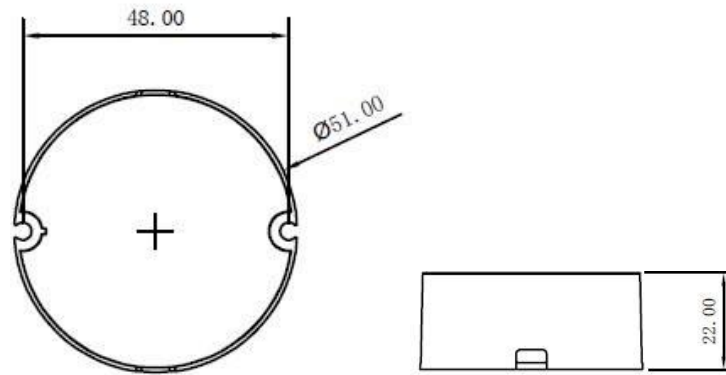
5. Dimming curve



6. Lifetime curve



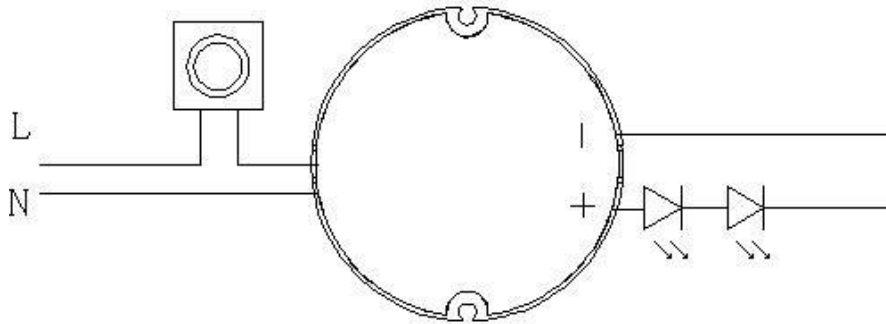
7. Dimension (Unit: mm)



8. Packing information

| Carton L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/ Carton(kg) | Gross weight / Carton(kg) |
|---------------------|------------|------------------------|---------------------------|------------------------------|
| 450*240*200 | 230 | 0.07 | 16.1 | 16.8 |

9. Wiring Diagram



10. 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.)