



Constant Current & Dimmable Driver

Model: CC15WXXX Triac



| Model | Output Current | Input Current | Input Power | Output Power Range | PF | Efficiency | Output Voltage | No load Voltage |
|----------------|----------------|---------------|-------------|--------------------|-------|------------|----------------|-----------------|
| CC15W300 Triac | 300mA | ≤0.12A | ≤20W | 10.8-15W | ≥0.92 | ≥80% | 36-50V | ≤65V |
| CC15W350 Triac | 350mA | ≤0.12A | ≤20W | 9.45-14.7W | ≥0.92 | ≥80% | 27-42V | ≤55V |
| CC15W400 Triac | 400mA | ≤0.12A | ≤20W | 10.8-15.6W | ≥0.92 | ≥80% | 27-39V | ≤55V |
| CC15W450 Triac | 450mA | ≤0.12A | ≤20W | 8.55-13.5W | ≥0.92 | ≥80% | 19-30V | ≤45V |
| CC15W500 Triac | 500mA | ≤0.12A | ≤20W | 9.5-15W | ≥0.92 | ≥80% | 19-30V | ≤45V |
| CC15W550 Triac | 550mA | ≤0.12A | ≤20W | 10.45-15.4W | ≥0.92 | ≥80% | 19-28V | ≤45V |
| CC15W600 Triac | 600mA | ≤0.12A | ≤20W | 7.8-12.6W | ≥0.92 | ≥80% | 13-21V | ≤35V |
| CC15W650 Triac | 650mA | ≤0.12A | ≤20W | 8.45-13.6W | ≥0.92 | ≥80% | 13-21V | ≤35V |
| CC15W700 Triac | 700mA | ≤0.12A | ≤20W | 9.1-14.7W | ≥0.92 | ≥80% | 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 | ≤ 20W |
| | Power Factor | ≥0.92 (230VAC,full load) |
| Output | Current Accuracy | ±5% |
| | Max. Output Power | 15.6W |
| | Started Delay Time | ≤0.5S (230VAC,full load) |
| | Current Ripple(< 120 Hz) | ±5% (Imax-Imin) / (Imax+Imin) |

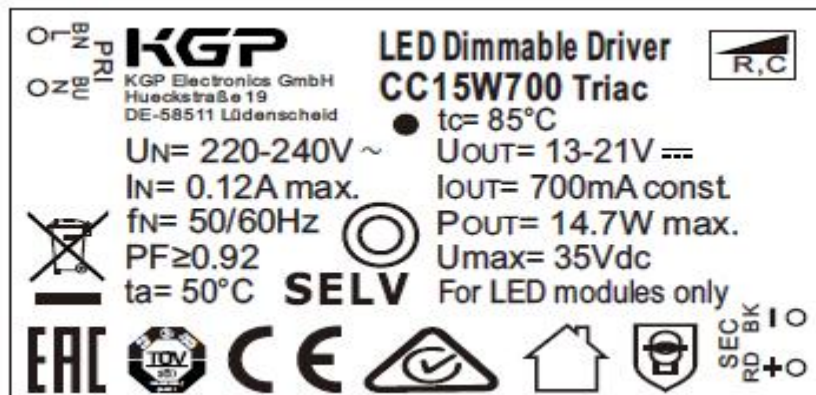
| | | |
|--|--------------------------|---|
| | PstLM | ≤1 |
| | SVM | ≤0.4 |
| Protection | Short Circuit Protection | Auto Recovery |
| | Overload Protection | Auto Recovery |
| | No-load Protection | Auto Recovery |
| | Insulation voltage | I/P to O/P , 3.0KVac/5mA/1min |
| | Insulation resistance | >100M ohm @ 500VDC |
| | Leakage current | I/P to O/P < 250μA |
| Environment | Ta/Operation Temperature | -20....+50°C |
| | Ts/Storage Temperature | -40....+85°C |
| | Tc/Enclosure Temperature | 85°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 | 68.2*36*23mm (L*W*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/ 1KV |
| | Others | RoHS |
| | Life Time | 50000h @Ta / Tc |
| | Warranty | 5years , F.R. < 10000ppm |
| | Noise | ≤28dB@Background noise ≤18dB , Interval≥15cm |
| 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 | 12 |
| ABB | 6526 U | 11 |
| JUNG | 1224 LED UDE | 12 |
| Berker | 2861 | 12 |
| JUNG | 254 UDIE 1 | 13 |
| JUNG | 225 TDE | 12 |
| EGANT | U321V2 | 12 |
| Schneider | SBD200LED | 13 |
| Schneider | SBD315RC | 12 |
| Merten | SBD200LED | 13 |
| Berker | 2874 | 12 |
| Eltako | EUD61NPL-230V | 10 |
| Eltako | EUD12NPN-UC | 10 |
| Eltako | EUD12D-UC | 10 |
| Eltako | EUD61NP-230V | 10 |
| Eltako | DTD55L-230V-wg | 10 |
| GIRA | Universal-LED-Dimmer Mini2440 00 | 10 |
| EHMANN | LED-Dimmer T46.08 | 9 |
| JUNG | DrehDimmer Unlversal LED1731DD | 10 |
| EHMANN | LED-Dimmer T46.03 | 10 |

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

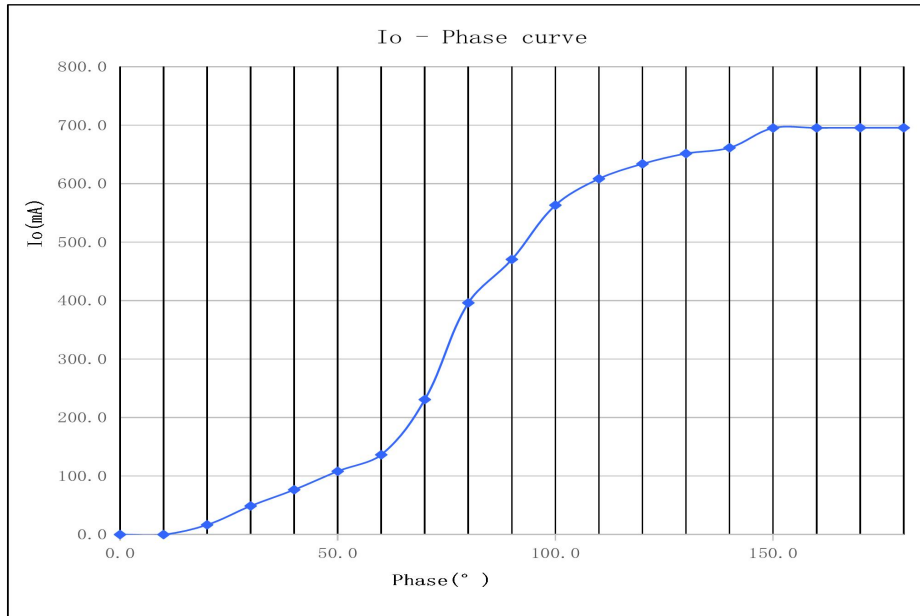
3. Label (For example)



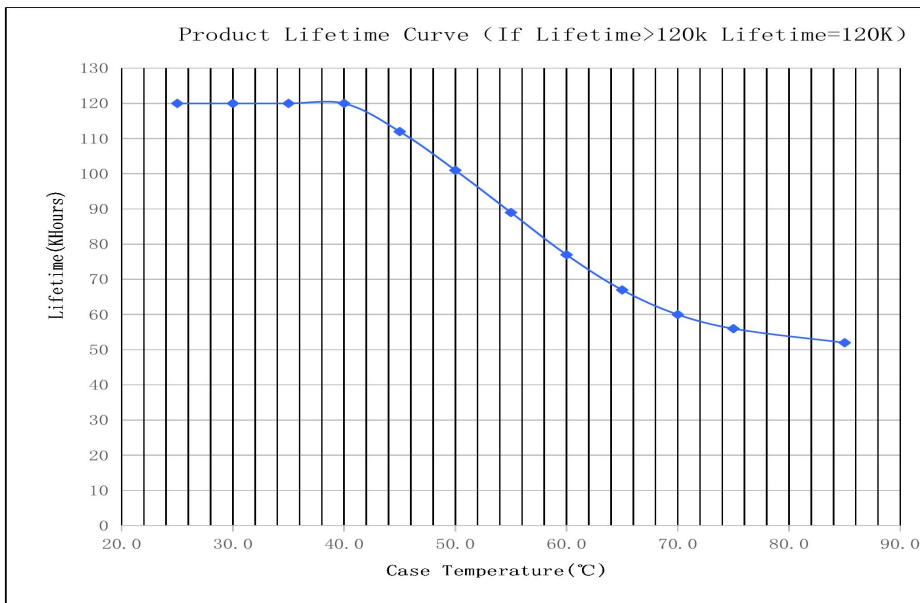
4. Connected quantities of different current Breaker

| 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 | | 50 | 65 | 80 | 100 | 125 | @230VAC | 12 | 400us |
| TYPE C | | 80 | 104 | 128 | 160 | 200 | | | |
| TYPE D | | 128 | 166 | 205 | 256 | 320 | | | |

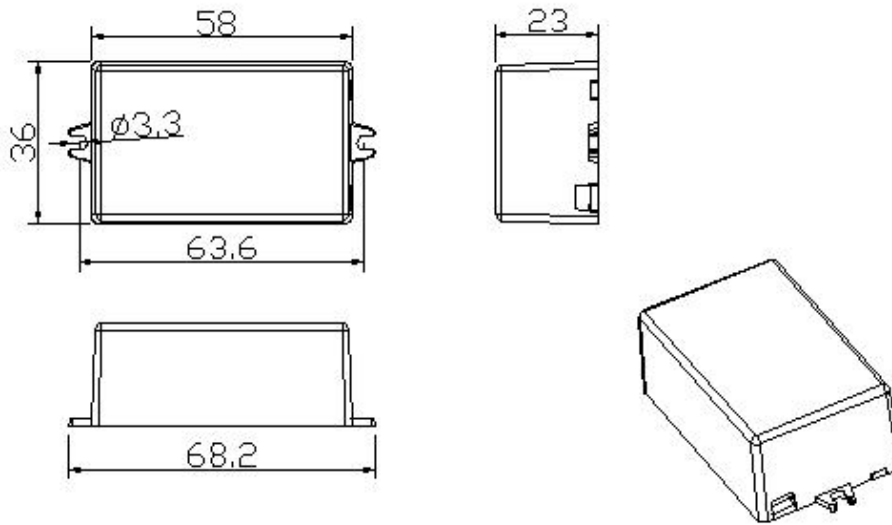
5. Dimming curve



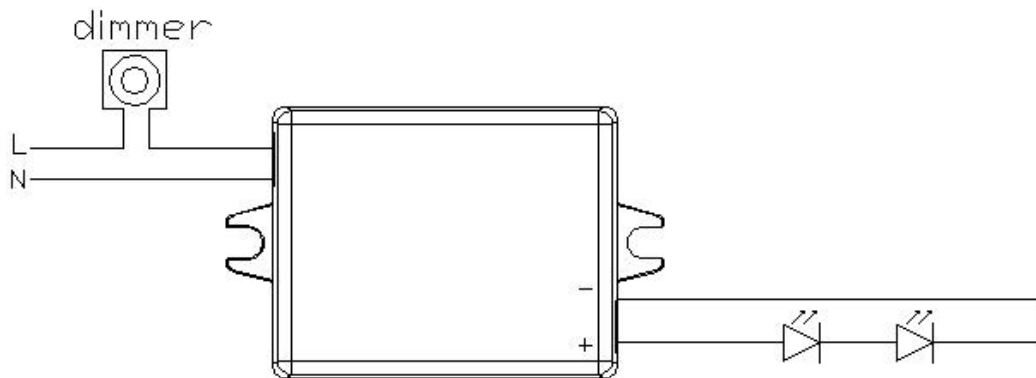
6. Lifetime curve



7. Dimension (Unit: mm)



8. Wiring Diagram



9. Packing information

| CartonL*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/ Carton(kg) | Gross weight / Carton(kg) |
|-----------------|------------|---------------------|------------------------|---------------------------|
| 450*240*200 | 270 | 0.08 | 21.6 | 22.4 |

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.)