# Triac dimmable driver---Constant Current series 80W

## ■ Features:

·Output constant current
·Range AC input :180-240VAC
·Built-in active PFC function
·Efficiency :up to 86%
·Protections:short circuit/over loading/over voltage over temperature
·Full protection aluminum housing easy installation
·IP66 design for outdoor installation
·Cooling by free air convection
·Work with leading edge and trailing edge TRIAC dimmers
·Strong compatibility, flicker-free dimming
· Suitable for LED lighting and moving sign applications

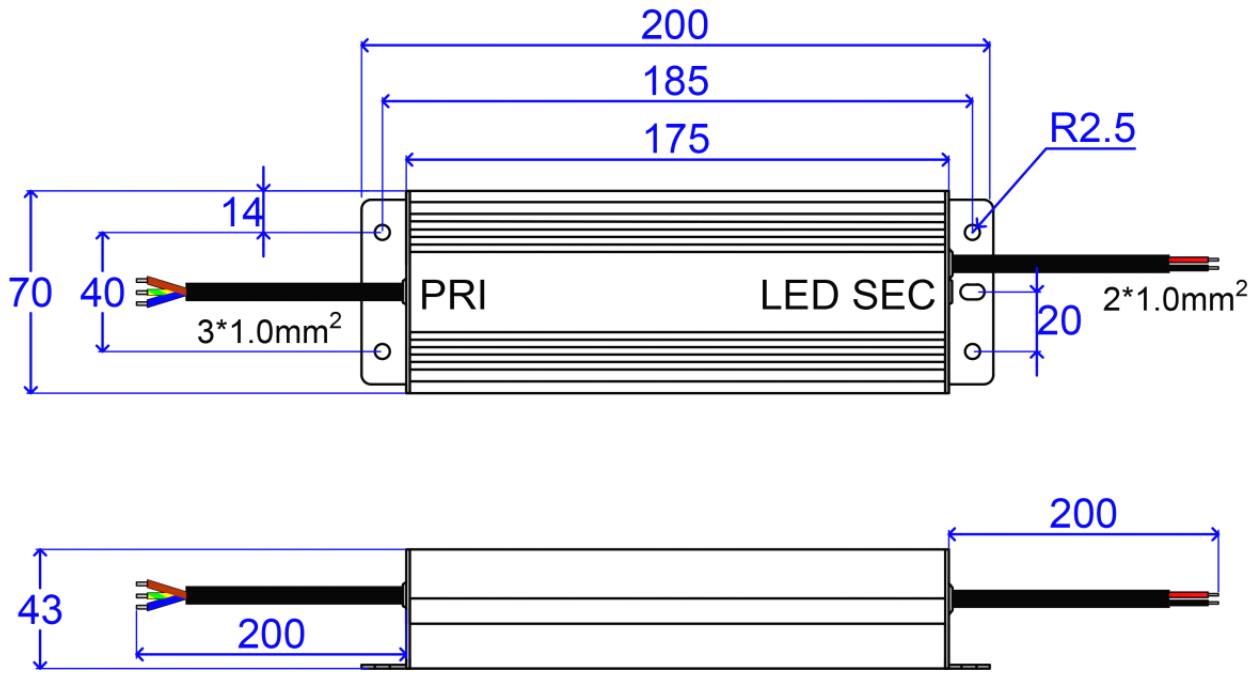
IP66 SELV

## ■ Specification

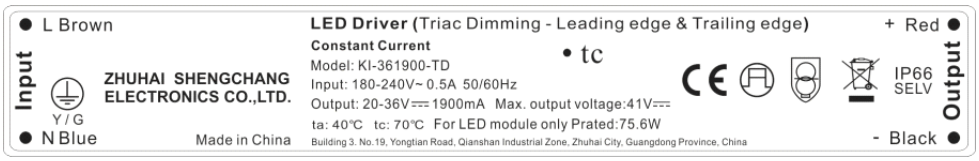
| Model | | KI-421900-TD | KI-421750-TD | KI-421600-TD | KI-361900-TD |
|---|---|---|---|---|---|
| Output | Rated current | 1900mA | 1750mA | 1600mA | 1900mA |
| | Current Tolerance | ±5% | | | |
| | Voltage Range | 25-42V | 25-42V | 25-42V | 20-36V |
| | Rated power | 79.8W | 73.5W | 67.2W | 68.4W |
| Input | Voltage Range | 180-240VAC | | | |
| | Frequency Range | 47-63HZ | | | |
| | Power Factor | PF≥0.95/180VAC PF≥0.92/230VAC PF≥0.92/240VAC(Full loading) | | | |
| | Full Load Efficiency(Typ.) | 86% | 86% | 86% | 86% |
| | AC Current(Max.) | 0.58A | 0.53A | 0.49A | 0.5A |
| | Leakage current | <0.50mA | | | |
| Protection | Short Circuit | Hiccup mode, recovers automatically after fault condition is removed | | | |
| | Over Load | ≤120% | | | |
| | Over Voltage | ≤47V | ≤47V | ≤47V | ≤41V |
| | Protection Class: | I | | | |
| | Over temperature | 100℃±10℃shut down o/p voltage ,re-power on to recover | | | |
| Environment | Working TEMP. | -40-+60℃ | | | |
| | Working Humidity | 20-95% RH,non-condensing | | | |
| | Storage TEM.,Humidity | -40-+80℃,10~95%RH | | | |
| | TEMP.coefficient | ±0.03%/℃(0-50℃) | | | |
| | Vibration | 10 - 500Hz, 2G 12min./1 cycle, period for 72min.each along X,Y,Z axes. | | | |
| Safety &EMC | Safety standards | EN61347-1 EN61347-2-13 IP66 | | | |
| | Withstand voltage | I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC | | | |
| | Isolation resistance | I/P-O/P I/P-FG O/P-FG:100MΩ/500VDC/25℃/70%RH | | | |
| | EMC EMISSION | EN55015,EN61000-3-2,3 (≥60%loading) | | | |
| | EMC IMMUNITY | EN61000-4-2,3,4,5,6,11,EN61547,A light industry level (Surge 4KV) | | | |
| Others | Net.Weight | 0.95 Kg | | | |
| | Size | 200*70*43mm ( L*W*H) | | | |
| | packing | 204*73*58mm inner box 310*240*165mm / 10PCS/ CTN | | | |
| Notes | 1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25℃of ambient | | | | |

| | |
|---|---|
| | temperature.<br>2. Tolerance: includes set us tolerance, line regulation and load regulation .<br>3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualify EMC Directive on the complete installation again |

## ■Mechanical Specification




## ■ Label




※Input Rubber cable H05RN-F 3G 1.0㎜²,the green /yellow cable connect with (FG),Brown with AC (L),Blue with AC(N)

※Output Rubber cable H05RN-F2 1.0㎜²,Red is output(V+) Positive,Black is output (V-) negative.Connected to LED Lamps.

※Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

※Note: Any other requests we can customized.

## ■Dimming Operation

※Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a triac dimmer.

※Compatible with Leading edge or tailing edge triac dimmers.

※please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero.

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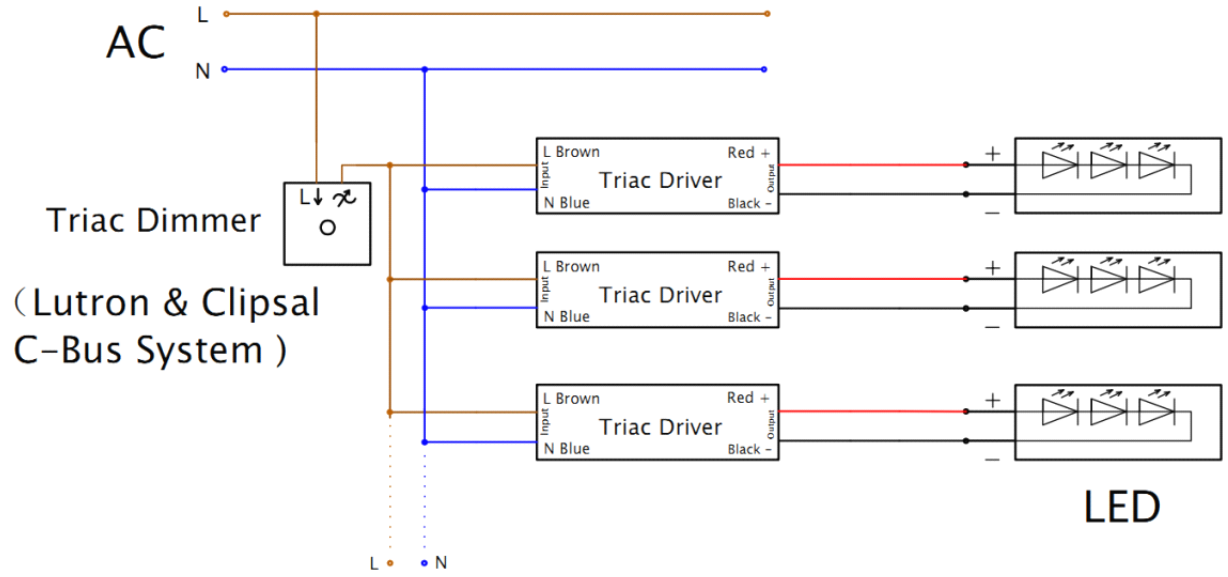
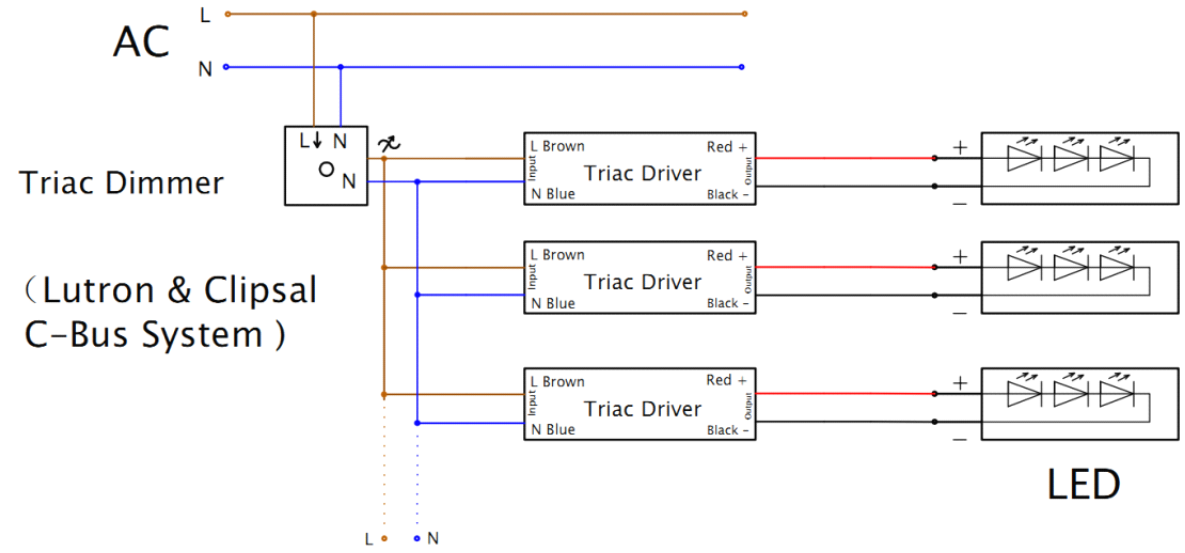
## ■ Connecting Diagram



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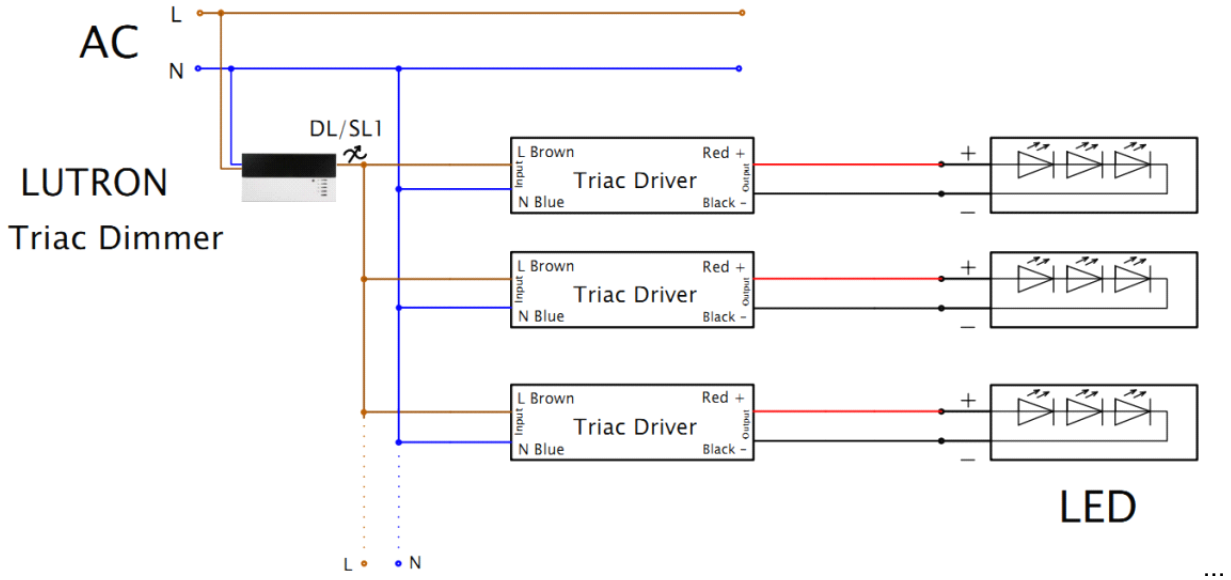


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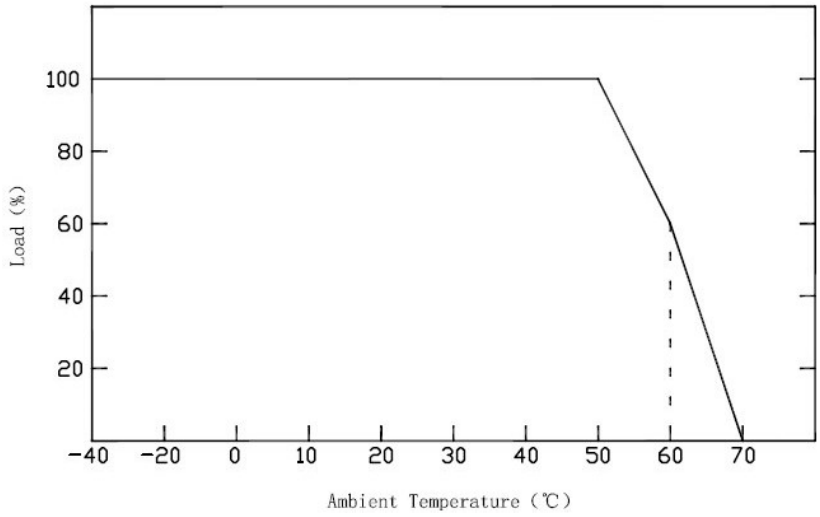
## ■Derating Curve




※To extend their life, please refer to the Derating Curve and derate according to the temperature.

## ■Instruction:

1) This driver should be installed by qualified and professional person;
2) Please make sure the transformer is installed with adequate ventilation around it to allow for heat dissipation.
3) Ensure that wiring is correct before test in order to avoid light and power supply damage;
4) If driver connot work normally, don't maintain privately;Have any question,please contact Shengchang.

Any other question please feel free to contact ZHUHAI SHENGCHANG ELETRONICS CO