

■ Features:

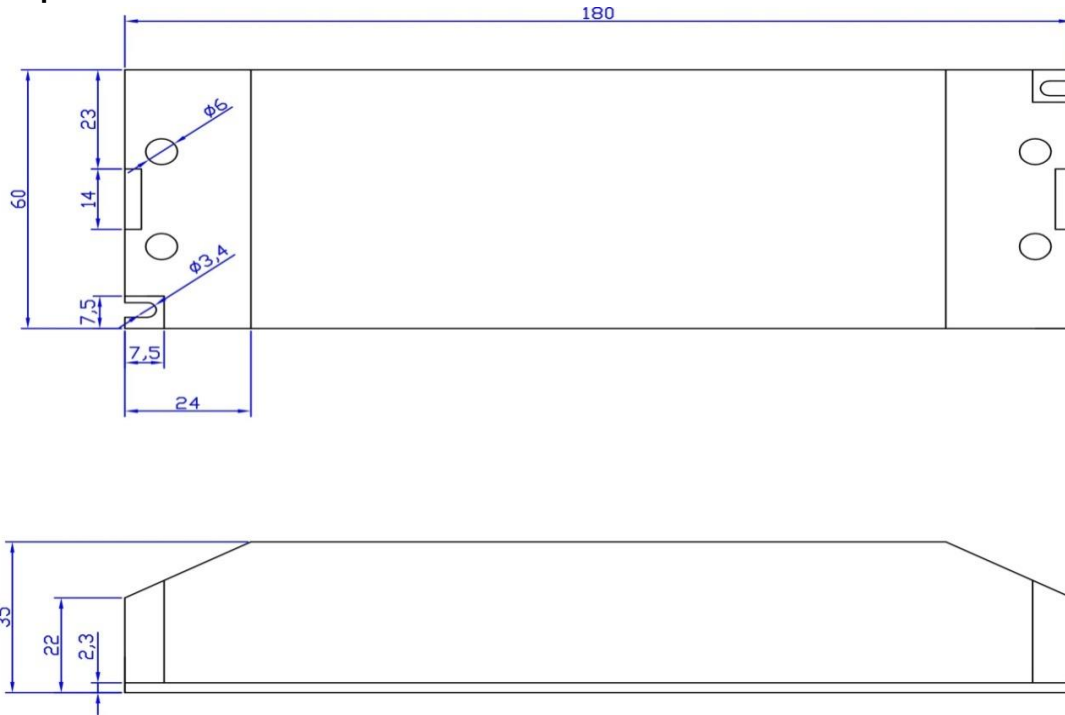
- Output constant current
- Universal AC input: 100-130VAC
- High efficiency :up to 87%
- Protection:short circuit/over loading/over current/ Over temperature
- Full protection plastic housing
- Easy installation
- Cooling by free air convection
- Compatible with Forward & Reverse phase, Triac, ELV Dimmers
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications and others
- Suitable for dry location use only, IP20



■ Specification

| Model | KI-56840-TDL | KI-50900-TDL | KI-451050-TDL | KI-421100-TDL | |
|------------------------|--|---|---------------|---------------|--------|
| Certificates | ETL,FCC | | | | |
| Output | Rated current | 840mA | 900mA | 1050mA | 1100mA |
| | Current Tolerance | ±5% | | | |
| | DC Voltage | 32-56V | 30-50V | 25-45V | 25-42V |
| | Open circuit voltage(Max.) | 61V | 55V | 50V | 47V |
| | Rated power | 47.04W | 45W | 47.25W | 46.2W |
| Input | Voltage Range | 100~130VAC | | | |
| | Frequency Range | 47~63HZ | | | |
| | Power Factor | PF≥0.95 (Full loading) | | | |
| | Efficiency (Typ.) | 87% | 87% | 87% | 86% |
| | AC Current (Max.) | 0.59A | 0.56A | 0.59A | 0.58A |
| | Leakage current | < 0.50mA/120VAC | | | |
| Protection | Short Circuit | Hiccup mode, recover automatically after fault condition is removed | | | |
| | Over Loading | ≤120% | | | |
| | Over temperature | 100°C±10°C,Shut down o/p voltage,recover automatically after temperature goes down. | | | |
| Environment | Working TEMP. | -40~+60°C | | | |
| | Working Humidity | 20~90%RH, non-condensing | | | |
| | Storage TEMP. Humidity | -40~+80°C, 10~90%RH | | | |
| | TEMP .coefficient | ±0.03%/°C (0~50°C) | | | |
| | Vibration | 10~500Hz, 2G 12min./1 cycle,period for 72min. each along X,Y,Z axes | | | |
| Safety& EMC | Safety standards | UL8750+UL1310 Class 2 unit | | | |
| | Withstand voltage | I/P-O/P:1500VAC | | | |
| | Isolation resistance | I/P-O/P: 100MΩ/500VDC/25°C/70%RH | | | |
| | EMC EMISSION | FCC Part 15 B | | | |
| Others | Net. Weight | 0.55Kg | | | |
| | Size | 180*60*35mm (L*W*H) | | | |
| | packing | 350*195*180mm 20PCS/CTN | | | |
| Notes | 1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25°C of ambient temperature. 2. To extend the driver's using life ,please reduce the loading at lower input voltage. 3.Loading should be 60-100%. | | | | |

■ Mechanical Specification for KV series 45W Phase/Triac Dimmable driver



■ Label



- ※ Input (L) and (N) with wires to be connected AC.
- ※ Output LED : (LED+) (LED-)

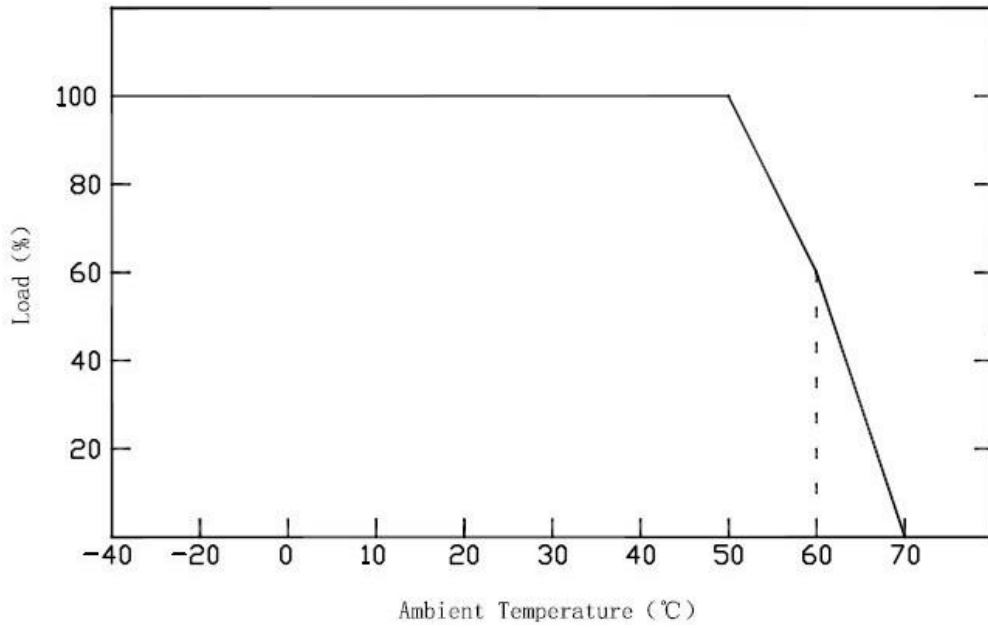
■ Dimming Operation

- ※Output power can be adjusted through input terminal of the AC phase line(L) by connection a phase/triac dimmer.
- ※Forward phase and Reverse phase, ELV, Triac Dimmers

■ Warning

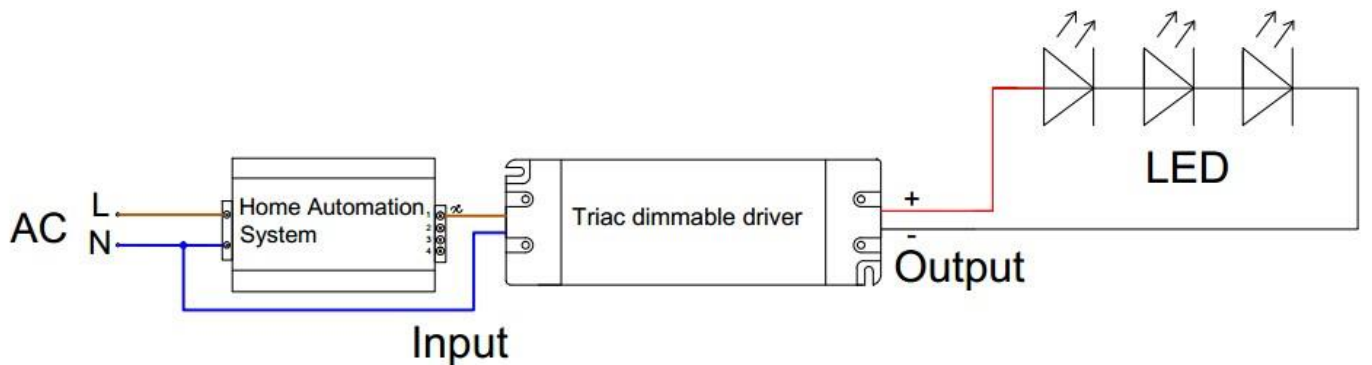
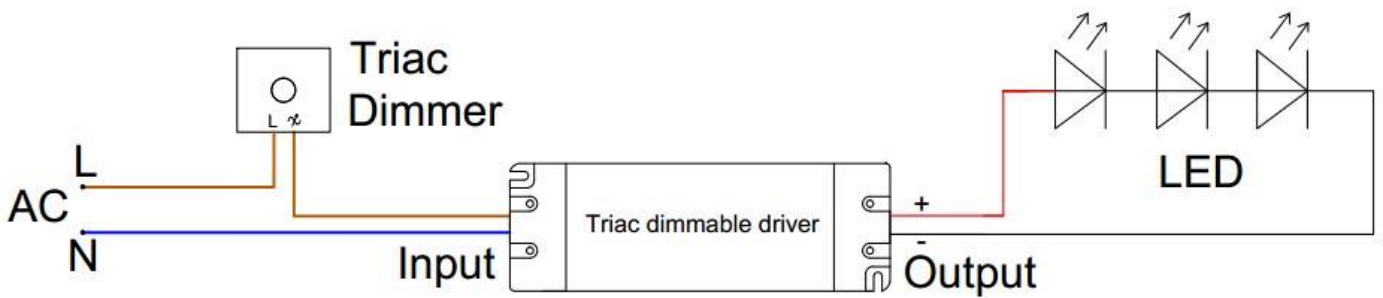
- ※Prevent to reverse polarity;
- ※Risk of Electric Shock. When used outdoors, install only on a circuit protected by a Class A GFCI;
- ※Risk of Fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician;
- ※Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

■ Derating Curve



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

■ Single Driver Connecting Diagram



■ Multiple Drivers Connecting Diagram

Constant Current Phase/Triac dimmable driver---45W series

