

0/1-10V LED dimmable driver---Constant current 10W



■ Feature

- Output constant current.
- Universal AC input:100-265VAC
- Built-in active PFC function
- High efficiency up to 80%
- Protections:Short circuit/Over current/Over loading
- Cooling by free air convection
- Fully isolated plastic case with terminals IP20
- Class 2 power unit
- Three in one dimming function(0/1-10Vdc or PWM signal or resistance)
- Dimming range: 0-100%
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Three years warranty

Specification

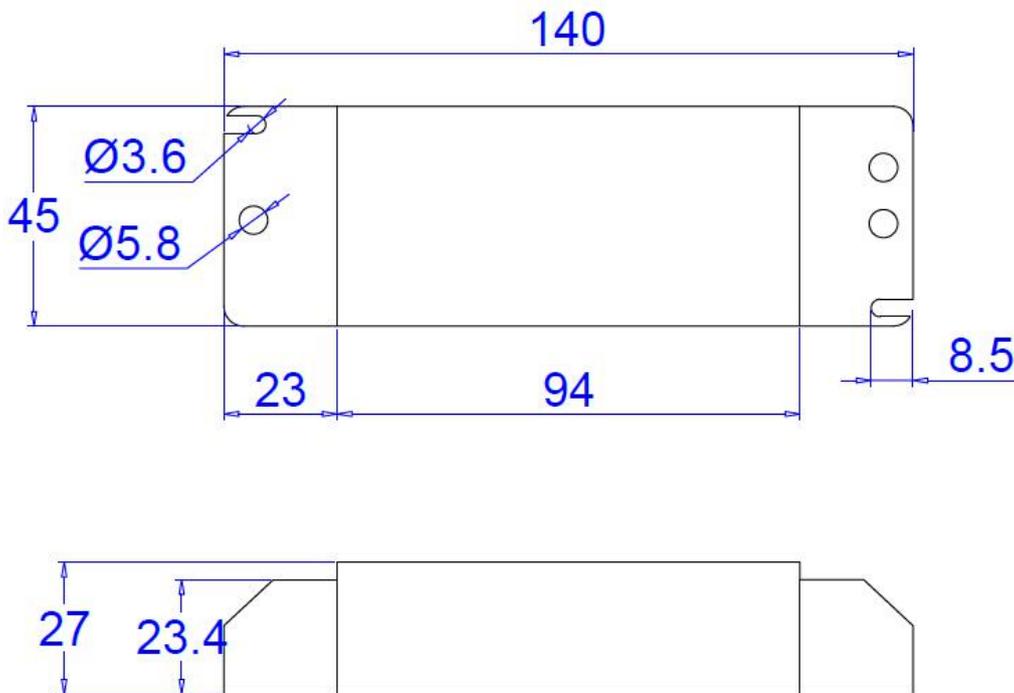


| Model       |                           | KI-30350-P-DIM  | KI-20500-P-DIM | KI-15700-P-DIM | KI-12900-P-DIM |
|-------------|---------------------------|---|----------------|----------------|----------------|
| Output      | DC Current                | 350mA   | 500mA          | 700mA          | 900mA          |
|             | Current Tolerance         | ±5%   |                |                |                |
|             | Output voltage range      | 18-30V  | 12-20V         | 9-15V          | 8-12V          |
|             | Rated power               | 10.5W   | 10W            | 10.5W          | 10.8W          |
|             | Open circuit voltage(Max) | 35V   | 25V            | 20V            | 16V            |
| Input       | Voltage Range             | 100~265VAC  |                |                |                |
|             | Frequency Range           | 47~63HZ   |                |                |                |
|             | Power Factor              | PF≥0.92/120VAC PF≥0.92/230VAC PF≥0.92/265VAC (Full loading)                               |                |                |                |
|             | Efficiency (Typ.)         | 80%   | 80%            | 80%            | 80%            |
|             | AC Current (Max.)         | 0.13A   | 0.12A          | 0.13A          | 0.13A          |
|             | Leakage current           | <0.5mA  |                |                |                |
| Protection  | Short Circuit             | Hiccup mode ,recover automatically after fault condition is removed                       |                |                |                |
|             | Over Loading              | ≤120%   |                |                |                |
| Environment | Working TEMP.             | -40~+60℃  |                |                |                |
|             | Working Humidity          | 20~90%RH non-condensing   |                |                |                |
|             | Storage TEMP.,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  |                |                |                |
|             | Withstand voltage         | I/P-O/P:3.75KVAC  |                |                |                |
|             | Isolation resistance      | I/P-O/P: 100M Ohms/500VDC/25℃/70%RH   |                |                |                |
|             | EMC EMISSION              | Compliance to EN55015,EN61000-3-2 (≥60%load)  |                |                |                |
|             | EMC IMMUNITY              | Compliance to EN61000-4-2,3,4,5,6,11, EN61547, light industry Level(surge 4KV) Criteria A |                |                |                |
| Others      | Net.Weight                | 0.2Kg   |                |                |                |

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|              |   |                          |
|--------------|---|--------------------------|
|              | Size  | 140*45*27mm (L*W*H)      |
|              | Packing   | 320*280*215mm/50pcs /CTN |
| <b>Notes</b> | <p>1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature.</p> <p>2. Tolerance:includes set up tolerance,line regulation and load regulation .</p> <p>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.</p> |                          |

■ 10W 0-10V dimmable driver Mechanical Specification



■ Label



※Input with Live Wire(L) Neutral Wire (N)

※Signal Dimming (0/1-10V) (DIM+), (DIM-)

※Output LED SEC (LED+), (LED-)

Note: Any other requests we can customized.

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**■ Dimming Operation**

※Built-in 3 in 1 dimming function, IP20 rated .Output luminous can be adjusted through output cable by connecting a resistance or 0/1-10Vdc or 10V PWM signal between DIM+ and DIM-.

※Please DO NOT connect “DIM-“ to “LED-“

※Reference resistance value: (Typical)

|                        |                  |      |        |        |        |        |        |        |        |        |        |         |      |
|------------------------|------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|------|
| Resistance value       | Single driver    | 0Ω   | 10KΩ   | 20KΩ   | 30KΩ   | 40KΩ   | 50KΩ   | 60KΩ   | 70KΩ   | 80KΩ   | 90KΩ   | 100KΩ   | OPEN |
|                        | Multiple drivers | 0Ω/N | 10KΩ/N | 20KΩ/N | 30KΩ/N | 40KΩ/N | 50KΩ/N | 60KΩ/N | 70KΩ/N | 80KΩ/N | 90KΩ/N | 100KΩ/N | ——   |
| Percentage of luminous |                  | 0%   | 10%    | 20%    | 30%    | 40%    | 50%    | 60%    | 70%    | 80%    | 90%    | 100%    | 100% |

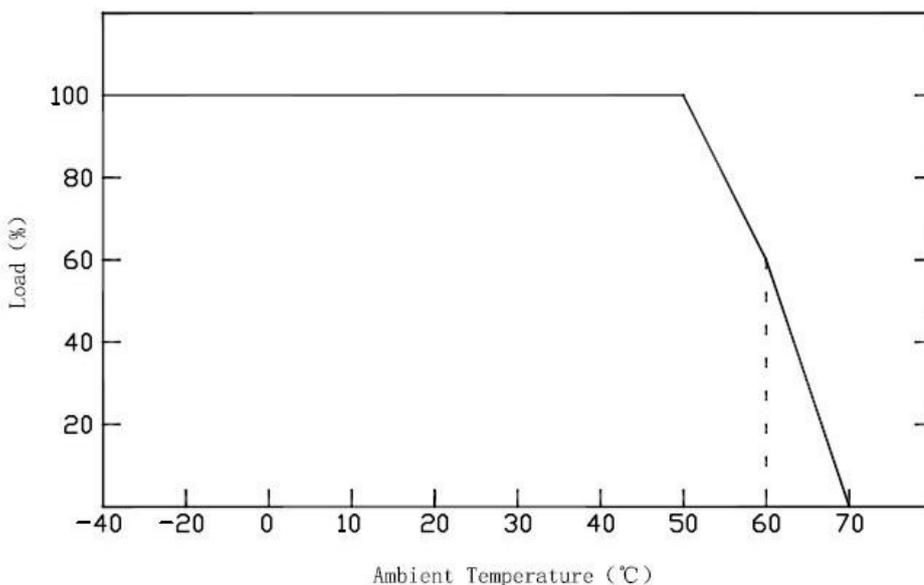
※1-10/0-10V dimmable function :(Typical)

|                        |    |     |     |     |     |     |     |     |     |     |      |      |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Dimming value          | 0V | 1V  | 2V  | 3V  | 4V  | 5V  | 6V  | 7V  | 8V  | 9V  | 10V  | OPEN |
| Percentage of luminous | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 100% |

※10V PWM signal: (Typical): Frequency range:100Hz-3KHZ

|                        |    |     |     |     |     |     |     |     |     |     |      |      |
|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Duty value             | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | OPEN |
| Percentage of luminous | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 100% |

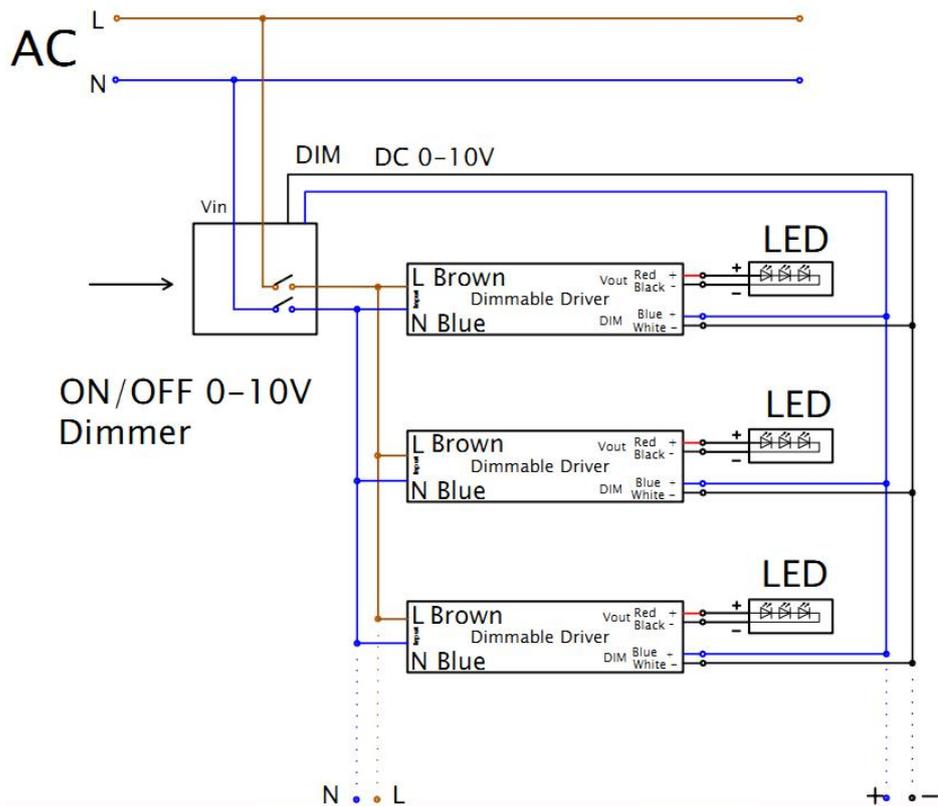
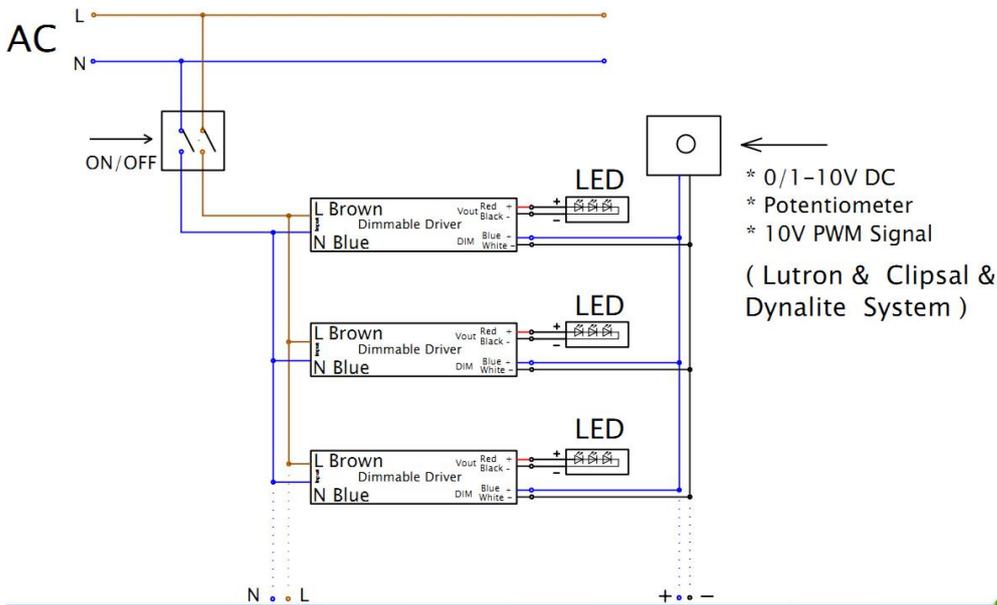
**■ Derating Curve**



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

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■ Connect Drawing



■ Instruction

- 1) This driver should be installed by qualified and professional person;
- 2) Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- 3) Ensure that wiring is correct before test in order to avoid light damage;
- 4) If driver cannot work normally, don't maintain privately; Have any questions, please contact Shengchang