

LED Intelligent Driver

- Dimming interface: 0-10V(1-10V/10V PWM/RX), Push DIM
- Built-in SCM, dimming curve and smoothing time of power on can be customized.
- 0~100% flicker-free, achieve the level of exemption assessment.
- Dimming range from 0-100%, LED start at 0.1% possible.
- Short circuit / Over-heat / Over load protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor I/II/III type lamps application.



5 in 1 dimming

0-10V
1-10V
10V PWM
RX
Push DIM

Dimmable:
0.1%-100%

Flicker-free

High frequency exemption level.

SELV



RoHS



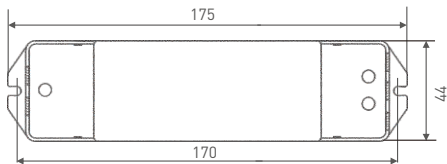
Specification

| Model | AD-36-12-F1P1 | AD-36-24-F1P1 | |
|----------------------|---------------------------|--|---------------|
| OUTPUT | Output Voltage | 12Vdc | 24Vdc |
| | Output Voltage Range | 12Vdc ±0.5Vdc | 24Vdc ±0.5Vdc |
| | Output Current | Max. 3A | Max. 1.5A |
| | Output Power | Max. 36W | |
| | Output Power Range | 0~36W | |
| | Strobe Level | High frequency exemption level. | |
| | Dimming Range | 0~100%, dimming depth: Max. 0.1% | |
| | Overload Power Limitation | ≥ 102% | |
| | Ripple & Noise | ≤ 200mV | |
| PWM Frequency | 3600Hz | | |
| INPUT | Dimming Interface | 0-10V (1-10V/10V PWM/RX), Push DIM | |
| | Input Voltage | 100-240Vac | |
| | Frequency | 50/60Hz | |
| | Input Current | 115Vac ≤ 0.8A, 230Vac ≤ 0.4A | |
| | Efficiency(typ.) | 85% | 86% |
| | Inrush Current(typ.) | Cold start 20A at 230Vac | |
| | Anti Surge | L-N:1KV | |
| | Leakage Current | <0.5mA/230Vac | |
| ENVIRONMENT | Working Temperature | ta: -30°C ~ 55°C tc: 70°C | |
| | Working Humidity | 20 ~ 95%RH, non-condensing | |
| | Storage Temp., Humidity | -40°C ~ 80°C, 10-95%RH | |
| | Temp. Coefficient | ±0.03%/°C (0-50°C) | |
| | Vibration | 10-500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes. | |
| PROTECTION | Over-heat Protection | Intelligently adjusting or turning off the output current if the PCB temperature ≥ 110°C, auto recovers. | |
| | Over Load Protection | Shut down the output when current load ≥ 102%, auto recovers. | |
| | Short Circuit Protection | Shut down automatically if short circuit occurs, auto recovers. | |
| SAFETY & EMC | Withstand Voltage | I/P-O/P: 3750Vac | |
| | Isolation Resistance | I/P-O/P: 100MΩ/500VDC/25°C/70%RH | |
| | Safety Standards | IEC/EN61347-1, IEC/EN61347-2-13 | |
| | EMC Emission | EN55015, EN61000-3-2 Class C, IEC61000-3-3 | |
| | EMC Immunity | EN61000-4-2,3,4,5,6,8,11 EN61547 | |
| Strobe Test Standard | IEEE-PAR 1789 | | |
| OTHERS | Dimension | 175×44×30mm[L×W×H] | |
| | Packing | 178×48×33mm[L×W×H] | |
| | Weight[G.W.] | 190g±10g | |

* The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The instantaneous surge current will be several times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering). When you order, please remark controlling the constant current LED fixture (e.g. MR16 lamp, underground light, LED wall washer, constant current LED strip, etc.), then we can prepare the special programs.

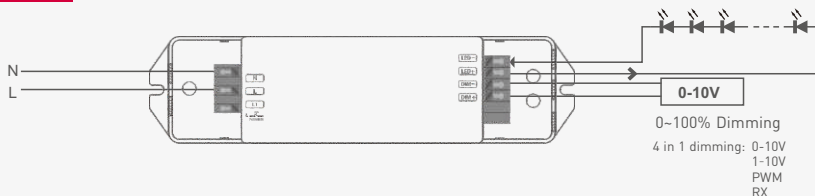
Dimensions

Unit: mm

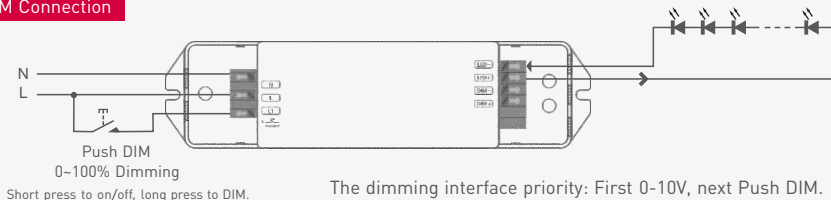


Wiring Diagram

0-10V Connection



Push DIM Connection



Push Dimming



Reset switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.