# AD-10-100-400-F1P1

LTSYS

1-10V

## LED Intelligent Driver

1-10W 100-400mA 10-45Vdc

- Dimming interface: 1-10V (0-10V/10VPWM/resistor).
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Short circuit / Over-heat / Over load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.

SELV CE RoHS

1-10V | PWM Digital Dimming | >79% Efficiency | Over-heat Protection | Short Circuit Protection | Over Load Protection

### Main Characteristics

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|---|---|
| Dimming Interface: | 1-10V (0-10V/10VPWM/Resistor) |
| Input Voltage Range: | 100-240Vac ±10% |
| Frequency: | 50/60Hz |
| Input Current: | 115Vac≤0.20A, 230Vac≤0.15A |
| Efficiency: | ≥79% |
| Inrush Current(typ.): | Cold start 20A@230Vac |
| Leakage Current: | <0.5mA/230Vac |
| Operating Voltage: | 10~45Vdc |
| Output Power | Max. 10W |

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|---|---|
| Current Accuracy: | ±3% |
| No Load Output Voltage: | ≤47Vdc |
| Dimming Range: | 0~100%, LED start at 0.1% possible. |
| Working Temperature.: | tc: 80°C ta: -30°C ~ 55°C |
| Working Humidity: | 20 ~ 95%RH, non-condensing |
| Storage Temp., Humidity: | -40 ~ 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 |

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|---|---|---|---|---|---|---|---|
| Output Current： | 100mA | 150mA | 200mA | 250mA | 300mA | 350mA | 400mA |
| Output Voltage： | 10-45V | 10-45V | 10-45V | 10-40V | 10-33V | 10-28V | 10-25V |
| Output Power： | 1-4.5W | 1.5-6.75W | 2-9W | 2.5-10W | 3-9.9W | 3.5-9.8W | 4-10W |

Attn: Please mark out the current while placing orders.

### Protection

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|---|---|
| Over-heat Protection: | Shut down the output when PCB temp.≥110°C, auto recovers when temp. back to normal. |
| Over Load Protection: | When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced. |
| Short Circuit Protection: | Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed. |

### Safety & EMC

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|---|---|
| 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: | EN61000-3-2 Class C, IEC61000-3-3 |
| EMC Immunity: | EN61000-4-2,3,4,5,6,8,11 EN61547 |

### Others

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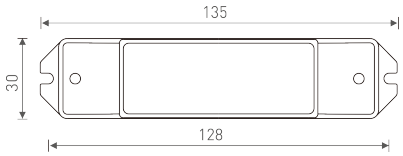
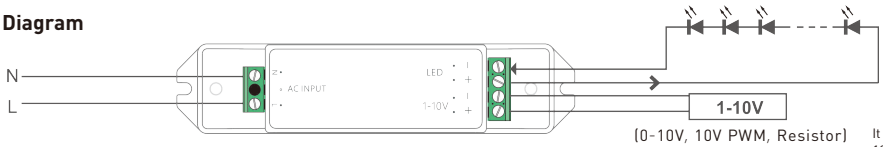
|---|---|
| Dimension: | 135×30×20mm(L×W×H) |
| Packing: | 140×34×23mm(L×W×H) |
| Weight(G.W.): | 80g±10g |

### Dimensions



### Wiring Diagram




1-10V

(0-10V, 10V PWM, Resistor)
0~100% Dimming

It is recommended to use 100kΩ~150kΩ dimming resistor.