

LED Intelligent Driver

- Dimming interface: 0-10V (1-10V/10VPWM/RX).
- T-PWM™ digital dimming, present a perfect visual experience.
- Built-in SCM, dimming curve and smoothing time can be customized.
- Automatic recognition of 0-10V, 1-10V input signal.
- Dimming range: 0~100%, LED start at 0.01% possible.
- Flicker-free (IEEE 1789), achieve the level of exemption assessment.
- Innovative thermal management technology, intelligent power life protection.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Class 2 power supply, Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I/II/III.



T-PWM™
Super depth dimming technology

Flicker-free

IEEE 1789

Dimmable:
.....
0.01-100%

4 in 1 dimming

- 0-10V
- 1-10V
- PWM
- RX

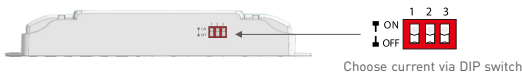


Specification

| Model | SE-12-100-400-W1A | SE-12-350-700-W1A | |
|-----------------------|--|---|---------------------------|
| OUTPUT | Output Voltage | 10-42Vdc | 10-24Vdc |
| | Max Output Voltage | 50Vdc | 35Vdc |
| | Output Current | 100-400mA | 350-700mA |
| | Output Power Range | 1W-12W | 3.5W-12W |
| | Strobe Level | High frequency exemption assessment level. | |
| | Dimming Range | 0~100%, 0.01% dimming depth. | |
| | LF current ripple(<120Hz) | <2% | |
| | Current Accuracy | ±5% | |
| | Ripple & Noise | ≤2V | |
| PWM Dimming Frequency | ≤3600Hz | | |
| INPUT | Dimming Interface | 0-10V (1-10V/10VPWM/RX) | |
| | Input Voltage | 100-240Vac | |
| | Frequency | 50/60Hz | |
| | Input Current | 0.25A@115Vac, 0.15A@230Vac | |
| | Power Factor | PF>0.97/115Vac, PF>0.85/230Vac, at full load | |
| | Efficiency | 80% | 78% |
| | Inrush Current(typ.) | Cold start 5A at 230Vac | |
| | Anti Surge | L-N: 1kV | |
| Leakage Current | <0.5mA/230Vac | | |
| ENVIRONMENT | Working Temperature | ta: -30°C ~ 50°C tc: 75°C | ta: -30°C ~ 50°C tc: 85°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 1789 | | |
| OTHERS | Dimension | 135×30×20mm[L×W×H] | |
| | Packing | 140×34×23mm[L×W×H] | |
| | Weight(G.W.) | 80g±10g | |

LED current selection

DIP switch for multi optional currents' quick selection (see the table below).



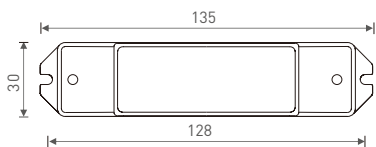
| SE-12-100-400-W1A | DIP Switch | ⬇ ⬇ ⬆ | ⬇ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ |
|-------------------|----------------|--------|----------|--------|-----------|--------|---------|--------|-----|
| | Output Current | 100mA | 150mA | 200mA | 250mA | 300mA | 350mA | 400mA | ON |
| | Output Voltage | 10-42V | 10-42V | 10-42V | 10-42V | 10-40V | 10-34V | 10-30V | ⬇ |
| | Output Power | 1-4.2W | 1.5-6.3W | 2-8.4W | 2.5-10.5W | 3-12W | 3.5-12W | 4-12W | OFF |

| SE-12-350-700-W1A | DIP Switch | ⬇ ⬇ ⬆ | ⬇ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ ⬆ ⬆ | ⬆ | |
|-------------------|----------------|----------|--------|-----------|--------|-----------|--------|----------|--------|-----|
| | Output Current | 350mA | 400mA | 450mA | 500mA | 550mA | 600mA | 650mA | 700mA | ON |
| | Output Voltage | 10-24V | 10-24V | 10-24V | 10-24V | 10-22V | 10-20V | 10-18.5V | 10-17V | ⬇ |
| | Output Power | 3.5-8.4W | 4-9.6W | 4.5-10.8W | 5-12W | 5.5-12.1W | 6-12W | 6.5-12W | 7-12W | OFF |

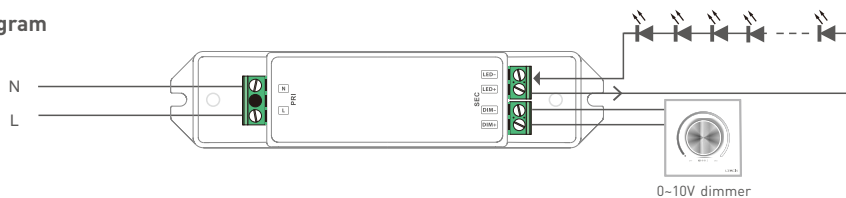
* Please choose the current value when the driver is power off.

Dimensions

Unit : mm



Wiring diagram



* No further notice if any changes in the manual.
Product function depends on the goods.
Please feel free to contact your supplier if any question.