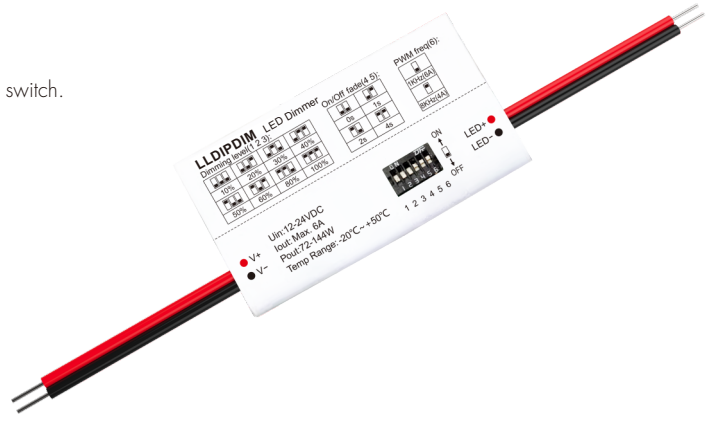


Constant Voltage LED Dimmer Controller

- 1 channel constant voltage LED dimmer.
- Setting light brightness, on/off light fade time, output PWM frequency via Dip switch.
- 8 level light brightness.
- 4 level light on/off fade time.
- Output PWM frequency 1KHz or 8KHz selectable.
- Logarithmic dimming curve.
- Overheat/overload protection.

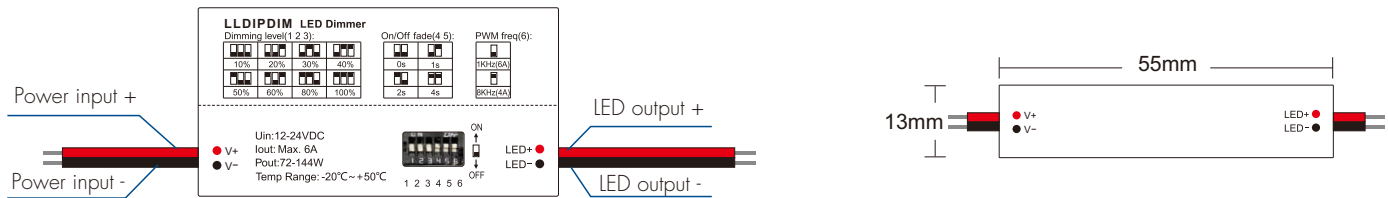


CE RoHS emc LVD

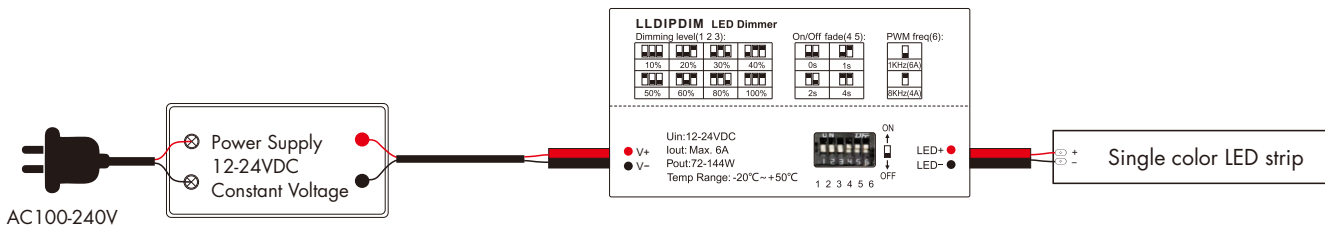
Technical Parameters

| Input and Output | | Dimming data | | Safety and EMC | |
|-------------------------|--------------------|--------------------|--------------------------------|-----------------------|---|
| Input voltage | 12-24VDC | Dimming gray scale | 4096 (2 ¹²) levels | EMC standard (EMC) | ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 |
| Output voltage | 12-24VDC | Dimming range | 10 - 100% | Safety standard | EN 62368-1:2020+A11:2020 |
| Output current | Max. 6A | Dimming curve | Logarithmic | Certification | CE, EMC, LVD |
| Output type | Constant voltage | PWM Frequency | 1KHz, 8KHz | Environment | |
| Warranty and Protection | | Package | | Operation temperature | Ta: -20°C ~ +55°C |
| Warranty | 5 years | Size | L90xH130mm | IP rating | IP20 |
| Protection | Overheat, Overload | Gross weight | 0.012kg | | |

Mechanical Structures and Installations



Wiring Diagram



DIP Switch Setting

- DIP switch 1-3 set 8 level output brightness.

| | | | | | | | | | |
|------------------|-----|-----|-----|-----|-----|-----|-----|------|--|
| | | | | | | | | | |
| Brightness level | 10% | 20% | 30% | 40% | 50% | 60% | 80% | 100% | |

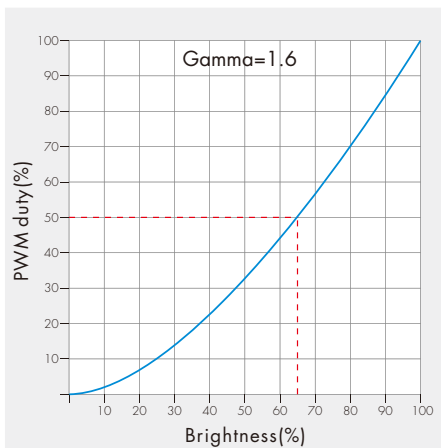
- DIP switch 4-5 set 4 level light on/off fade time.

| | | | | |
|-----------|----|----|----|----|
| | | | | |
| Fade time | 0s | 1s | 2s | 4s |

- DIP switch 6 set two output PWM frequency.

| | | |
|----------|------------|-----------|
| | | |
| PWM freq | 1 KHz (6A) | 8KHz (4A) |

Dimming curve



Note

- When the temperature exceeds 115°C, the light is off; when the temperature drops to 110°C, the light comes back on.
- When the dimmer is overloaded twice, it will turn off the output and need to be re-powered to resume.