



LED COLOR

LED Intelligent Driver (CV)

- TRIAC/0-10V/1-10V/10V PWM/RESISTANCE DIM
- With soft-on and fade in function, visual more comfortable.
- Dimming range: 0~100%, LED start at 1% possible.
- 0-100% flicker-free, High frequency exemption level.
- High Efficient driver: efficiency 90%, PF>0.95, THD<10%
- Over load / Over temp. / Short circuit / Over voltage protection, recover automatically.
- Suitable for internal lights application for I / II / III.
- Up to 50000-hour life time.



5 in 1 dimming
0-10V
1-10V
10V PWM
TRIAC DIM
Resistance DIM

100-277V Dimming

PF>0.95

THD<10%

Flicker-free

IEEE 1789
High frequency exemption level



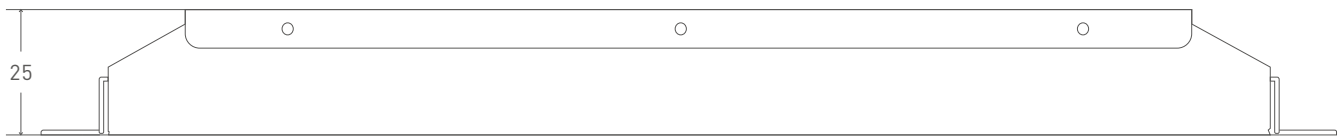
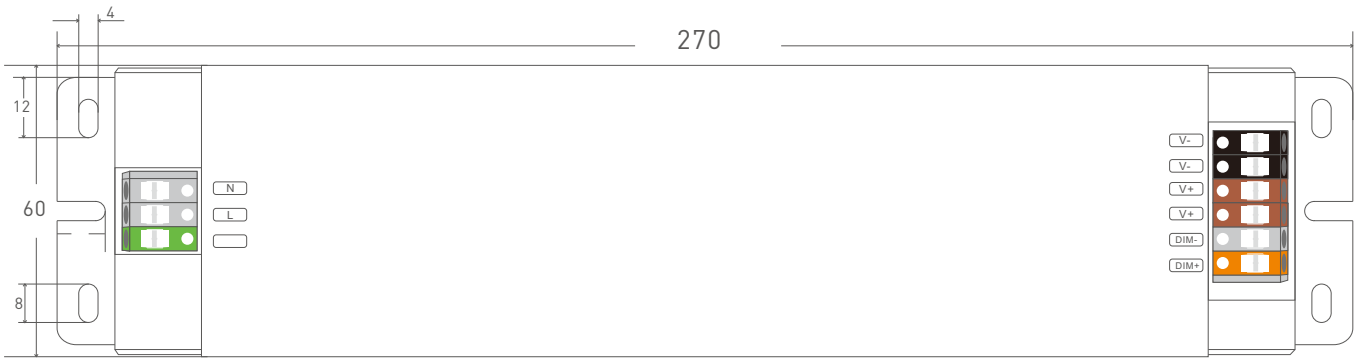
Specification

| Model | | UGP200W-12TL | UGP200W-24TL |
|--------------|--------------------------|---|---|
| OUTPUT | Output voltage | 12VDC | 24VDC |
| | Output voltage range | 12VD±0.5VDC | 24VDC±0.5VDC |
| | Output current | Max 16.7A | Max 8.4A |
| | Output power | Max 200W | |
| | Output power range | 0~200W | |
| | With or without strobe | No strobe | |
| | Dimming range | 0~100%, dimming depth: Max. 1% | |
| | Ripple & Noise | ≤200mV | ≤400mV |
| | PWM frequency | 3500Hz | |
| INPUT | Dimming interface | TRIAC/0-10V/1-10V/10V PWM/RESISTANCE DIM | |
| | Input voltage | 100-277Vac | |
| | Frequency | 50/60Hz | |
| | Input current | 2.36~0.85A | |
| | Power factor | PF>0.95/230Vac, at full load | |
| | THD | ≤10% at 230Vac, at full load | |
| | Efficiency (typ.) | 90% | 91% |
| | Inrush current(typ.) | Cold start 60A | |
| | Control surge capability | L-N:2KV | |
| | Leakage current | Max. 0.5mA | |
| ENVIRONMENT | Working temperature | ta: -30°C ~ 50°C tc: 80°C | |
| | Working humidity | 20 ~ 95%RH, non-condensing | |
| | Storage temp., humidity | -40°C ~ 80°C, 10~95%RH | |
| | Vibration | 10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes. | |
| PROTECTION | Overtemperature | Protection type: Shut down o/p voltage, re--power on to recover | |
| | Over voltage protection | Shut down the output when non-load voltage ≥13V, re-power on to recover after fault condition is removed. | Shut down the output when non-load voltage ≥26V, re-power on to recover after fault condition is removed. |
| | Over load protection | Shut down the output when current load ≥110%, auto recovers. | |
| | Short circuit protection | Protection type: 1. When the first-level short-circuit protection is triggered, the fault can be automatically recovered; 2. When the second-level short-circuit protection is triggered, the power needs to be turned on again after the fault is eliminated | |
| 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 | |

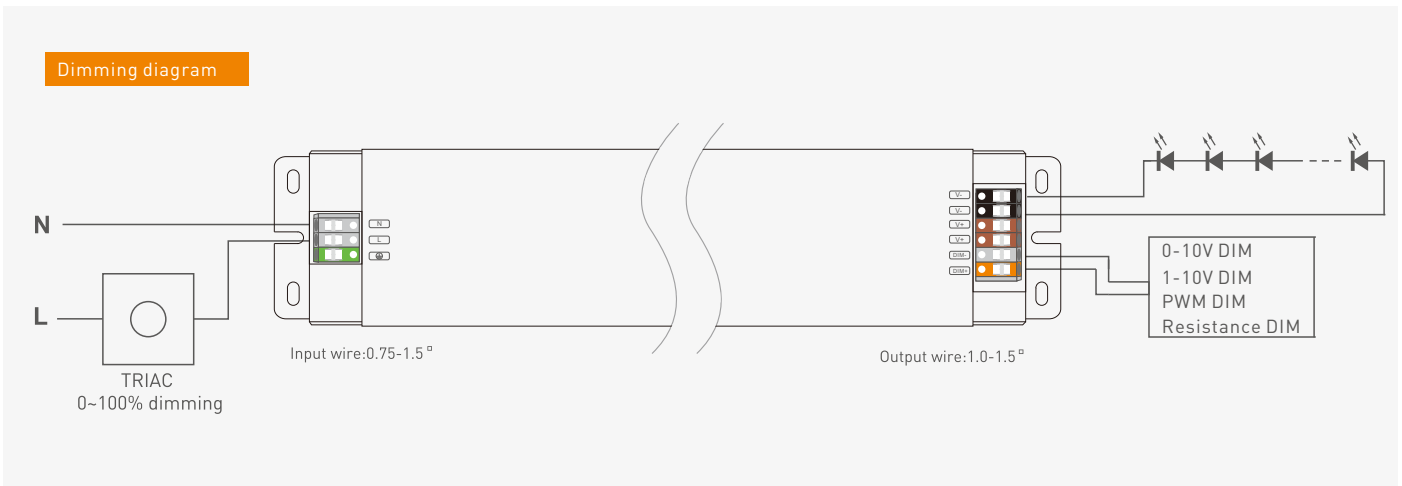


5 in 1 dimming
 0-10V
 1-10V
 10V PWM
 TRIAC DIM
 Resistance DIM

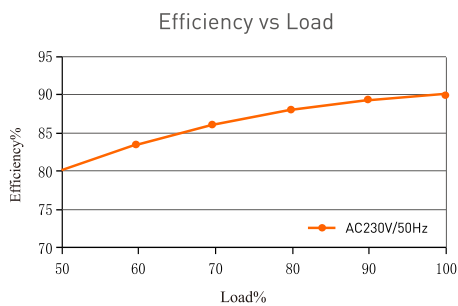
Dimensions Unit:mm



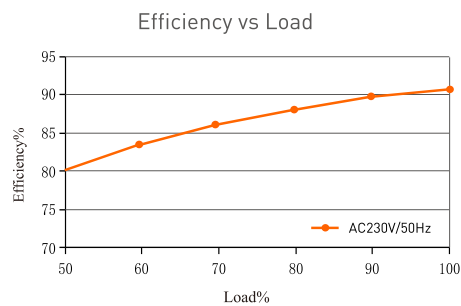
Wiring diagram



Relationship diagrams



UGP200W-12TL

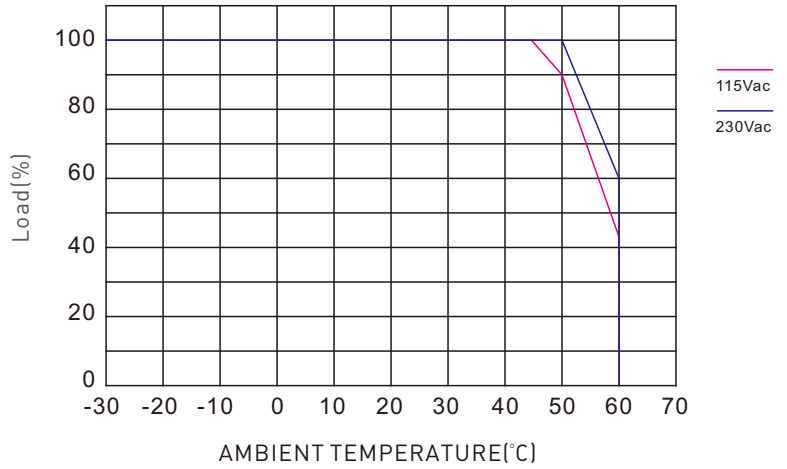


UGP200W-24TL

Packaging Information

| | |
|-----------------|--------------------|
| DIMENSION | 270x60x25mm(LxWxH) |
| PACKING | 272x65x28mm(LxWxH) |
| CARTON QUANTITY | |
| CARTON SIZE | |
| WEIGHT | 750g±10gPCS |

Temperature load curve



Flicker Test Form

IEEE 1789

| Limit of Modulation in low risk area | |
|---------------------------------------|--|
| Waveform frequency of Optical output | limit (%) |
| $f \leq 8\text{Hz}$ | 0.2 |
| $8\text{Hz} < f \leq 90\text{Hz}$ | $0.025 \times f$ |
| $90\text{Hz} < f \leq 1250\text{Hz}$ | $0.08 \times f$ |
| $f > 1250\text{Hz}$ | Exemption assessment |
| Limit of Modulation in no effect area | |
| Waveform frequency of Optical output | limit (%) |
| $f \leq 10\text{Hz}$ | 0.1 |
| $10\text{Hz} < f \leq 90\text{Hz}$ | $0.01 \times f$ |
| $90\text{Hz} < f \leq 3125\text{Hz}$ | $[0.08/2.5] \times f$ |
| $f > 3125\text{Hz}$ | Exemption assessment [High frequency exemption] |

Brightness

- ◆ 1%
- ▲ 5%
- ◆ 10%
- 20%
- ▲ 30%
- 40%
- ★ 50%
- 60%
- 70%
- 80%
- ★ 90%
- ◆ 100%

Exemption assessment
(High frequency exemption)

