



- 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.
- Highly Efficient driver: efficiency 88%, PF>0.95, THD<10%
- Overload / Over temp. / Short circuit / Over voltage protection, recover automatically.
- Suitable for internal lights application for I/II/III
- Up to 50000-hour lifetime.



MODEL NUMBER		YG-200D-12-60	YG-2000D-24-60
OUTPUT	Output voltage	12VDC	24VDC
	Output voltage range	12VDC±0.3VDC	24VDC±0.6VDC
	Output Current	Max 5A	Max 2.5A
	Output power	Max 60W	
	Output power range	0~60W	
	Ripple & Noise	≤200mV	≤400mV
	Dimming range	0~100%, dimming depth: Max. 1%	
	With or without strobe	No strobe	
	PWM frequency	3500Hz (Compliant to IEEE 1789)	

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



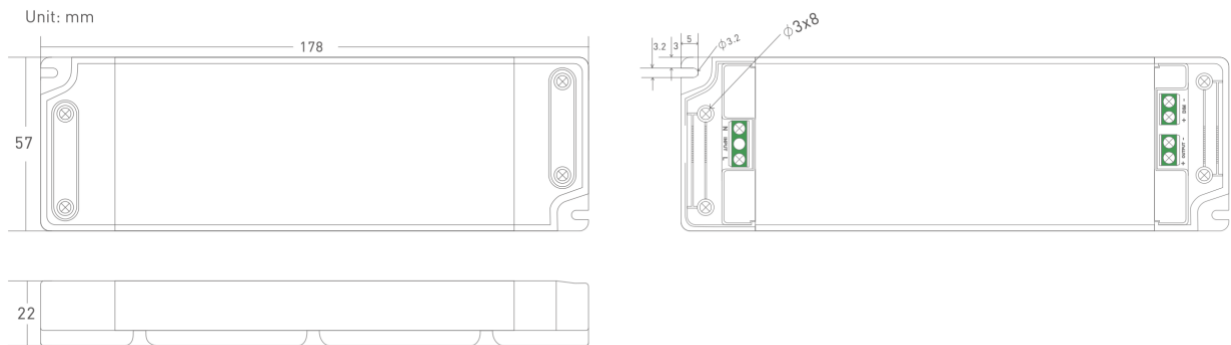
INPUT	Dimming interface	TRIAC (Leading / Trailing edge), 0/1 ~ 10V, PWM & Resistance	
	Input voltage	100-277 VAC 50/60 HZ	
	Input current	0.72~0.26A	Max 2.5A
	Power factor	PF>0.95/230Vac, at full load; PF>0.98/115Vac, at full load	
	THD	10% at 230Vac, at full load	≤400mV
	Efficiency (typ.)	88%	89%
	Inrush current(typ.)	Cold start:30A/230V	
	Control surge capability	L-N:2KV	
	Leakage current	Max.0.5mA	

ENVIROMENT	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.	

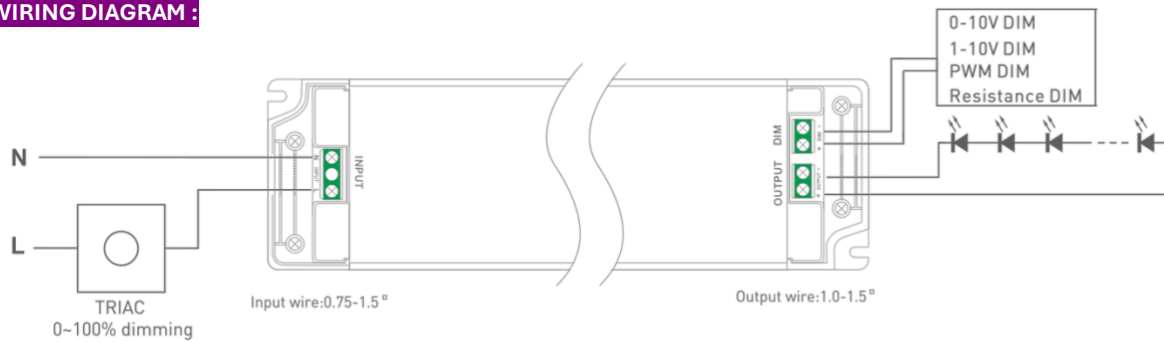
PROTECTION	Overtemperature	Protection type: Shut down o/p voltage, re-power on to recover	
	Over voltage protection	Shut down the output when non-load voltage≥13V, re-power on to recover after fault condition is removed.	Shut down the output when non-load voltage≥26V, re-power on to recover after fault condition is removed.
	Overload 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	



PRODUCT DIMENSIONS :



WIRING DIAGRAM :





WARNING:

1. Only qualified electricians should install this LED driver in accordance with local and national electrical codes
2. If the power supply has visible damaged, please do not install and contact Yellow & Grey LTD immediately
3. This product requires a high voltage input. Risk of electric shock. Turn off all power sources before installation maintenance, or servicing.
4. Risk of fire. Do not install in locations with limited ventilation, or near flammable materials.
5. Ensure all connections are secure. Loose connections can cause overheating, damage, or fire.
6. Install in an environment within the specified operating temperature range (e.g., -10°C to 45°C). Exceeding this range may cause malfunction, reduce lifespan, or create a hazard.
7. Not suitable for installation in wet or damp locations unless rated for such conditions. Ensure the driver is properly enclosed to prevent moisture exposure.
8. Incorrect wiring can cause permanent damage to the driver and LEDs. Follow wiring diagrams precisely
9. Ensure polarity (positive and negative connections) is correct. Reversing connections can damage LEDs or the driver.
10. Do not exceed the maximum load specified on the driver. Overloading can cause overheating, damage, or fire
11. Ensure proper grounding for safety and to prevent electrical shock. This driver must be grounded in accordance with local and national electrical codes.
12. This driver may produce flicker at certain dimming levels. Ensure compatibility with sensitive environments and consult the product specifications for details on flicker characteristics.
13. To avoid potential health effects from flicker, especially in environments with vulnerable individuals, install drivers and LEDs according to IEEE 1789 recommendations where applicable.
14. Turn off power to the driver before servicing, repairing, or inspecting the installation to avoid electric shock.
15. Only use manufacturer-approved replacement parts. Substituting parts can impair safety and void warranties.
16. Periodically inspect connections and the driver housing for damage. If damaged, disconnect power and replace immediately.
17. This driver is designed for use only with compatible LED lights as specified. Using incompatible lights may result in poor performance, overheating, or damage
18. Operating outside the rated voltage range or other specified conditions may void warranty and create safety risks