

### 1. Product description

Type: Isolated LED driver (for class I LED luminaires)
Category: AC100-120V, UL Triac dimmable series
Product properties: active PFC, high efficiency, low THD.
Application: commercial, residential and decorative lighting.
Warranty: 5 years (please refer to the warranty condition).

Certifications: UL, FCC

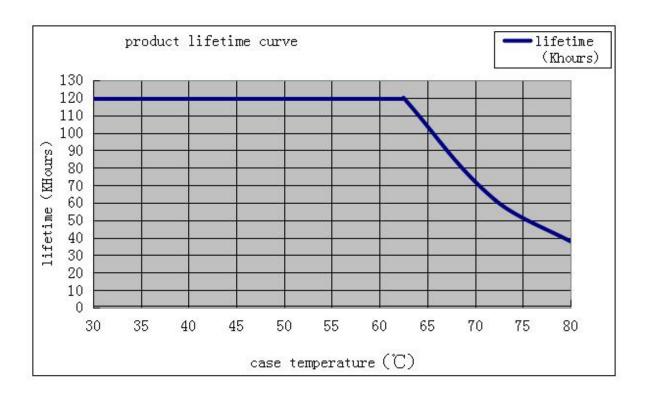
### 2. Technical data

	Full model number	LF-GDE012YD0200L	LF-GDE012YD0250L	LF-GDE012YD0300L			
	Output voltage	25-40 VDC					
	Output current	200mA	250mA	300mA			
	Ripple voltage	≤4V		•			
Output	Current tolerance	±6% @ AC120V					
•	Time to light	100Vac <1S					
	Temperature drift	±10%					
	Output Line regulation	±5%					
	Input Line regulation	±5%					
	Input voltage	100-120Vac (limit voltage: 100-140VAC)					
	Frequency	60Hz					
	Input current	0.2A Max					
Input	Power factor	≥0.9/120Vac	≥0.9/120Vac	≥0.9/120Vac			
прис	THD	≤20%					
	Efficiency	≥83%/120Vac	≥83%/120Vac	≥83%/120Vac			
	In-rush current (peak /duration)	<60A/350uS@120Vac					
	Typ. power input on stand-by	Pin<1W					
Protective	No-load	Max. output voltage (no-load voltage) 55V					
features	Short-circuit	Hiccup mode (auto-recovery)					
	Working temperature	-30°C ~ +50°C					
	Working humidity	20-90%RH (no condensation)					
Environment condition	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)					
	Atmospheric pressure	86-106KPa	86-106KPa				
	Certifications	UL, FCC compliant (certificates are coming soon)					
	Hi-pot test	I/P-O/P:3.75KVac,<5mA 60S;	I/P-O/P:3.75KVac,<5mA 60S;				
Safety and	Insulation resistance	I/P-O/P,I/P-FG,O/P-FG:500VDC,>100MΩ					
norms	Surge level	Compliant with IEC61000-4-5 (L/N: 1KV)					
	EMI	Compliant with FCC-PART-15B					
	EMS	Compliant with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.					
Others	Packing (weight)	Carton size: 385*285*210 mm (L*W*H); Net weight: 73.6g±5%/pc; 5.0KG±5%/ctn; Quantity: 12 PCS/layer, 5 layer/ctn, 60 PCS/ctn					
others	IP level	IP20					
	Warranty condition	5 years (Max. case temperature must not exceed 75°C).					
Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, etc.						
Test conditions	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 120V and 90% output load.						
Additional Remark	1. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity.      2. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above.      3. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer						
		t re-confirm the EMC of the LED la					

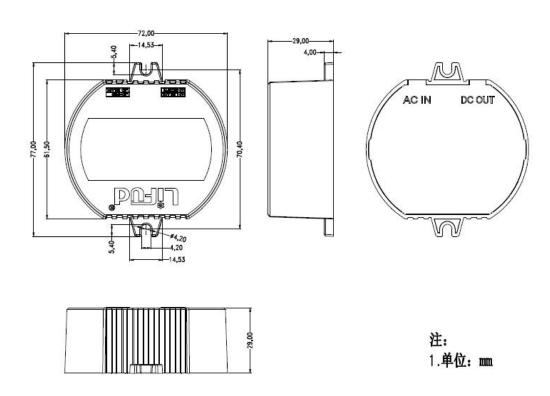
Model	LF-GDE012YD	Series	AC100-120V Triac Dimmable Series

### 3. Product Referenced Lifetime Curve

The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C.



#### 4. Dimensional Drawing (unit: mm)



Model LF-GDE	2012YD   Series	AC100-120V Triac Dimmable Series
--------------	-----------------	----------------------------------

### 5. Wire Connection Diagram:



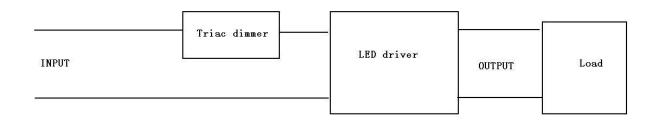
Input wire: UL1015 No.18 multi-stand wire, Black AC-L and White AC-N ,total length of  $300mm \pm 10mm$ , exposed  $250mm \pm 10mm$ , tail stripping dip tin  $10mm \pm 2mm$ 

**Output wire:** UL3239 NO.22 silicone wire, Red LED+ and Black LED-, total length 160mm  $\pm$  10mm, exposed 130mm  $\pm$  10mm, Tail stripping dip tin (3mm  $\pm$  1mm positive tolerance)

### 6. Function Instructions:

(1)Dimming function description:

Diagram:

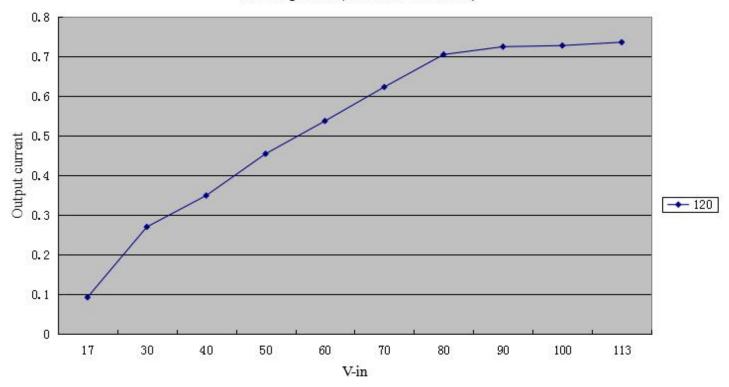


## (2) Compatible Triac Dimmers and Dimming Curve

LUTRON Model:MACL-153M LEVITON Model:TBL03

Model	LF-GDE012YD	Series	AC100-120V Triac Dimmable Series
-------	-------------	--------	----------------------------------

# Dimming Curve (Triac Dimmer TBL03)



# Dimming Curve (Triac Dimmer MACL-153M)

