1. Product description



Type: Isolated LED driver suitable 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

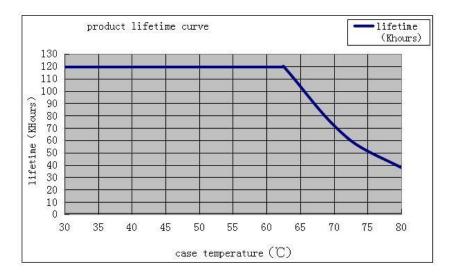
	Full model number	LF-GDE030YD0650L	LF-GDE030YD0700L	LF-GDE030YD0750L				
	Output voltage	25-40VDC						
Output	Output current	650mA	700mA	750mA				
	Ripple voltage	<4.2V						
	Current tolerance	±6%@AC120V						
	Time to light	100Vac<1S						
	Temperature drift	±10%						
	Output Line regulation	±5%						
	Input Line regulation	±5%						
	Input voltage	100-120Vac (limit voltage: 100-140Vac)						
	Frequency	47Hz-63Hz						
	Input current	0.4A Max						
Input	Power factor	≥0.9/120Vac	≥0.9/120Vac	≥0.9/120Vac				
	THD	≤20%						
	Efficiency	≥83%/120Vac	≥83%/120Vac	≥83%/120Vac				
	In-rush current (peak /duration)	<60A/350uS@120Vac						
	Typ. power input on stand-	<1W						
Protective	No-load	Max. output voltage (no-load voltage) 55V						
features	Short-circuit	Hiccup mode (auto-recovery)						
	Working temperature	-30°C - +50°C						
Environment	Working humidity	20-90%RH (no condensation)						
condition	Storage Temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)						
	Atmospheric pressure	86-106KPa						
	Certifications	UL, FCC						
	Hi-pot test	I/P-O/P:3.75KVac,<5mA 60S						
Safety and norms	Insulation resistance	I/P-O/P:500VDC,>100MΩ						
HOI HIS	Surge level	Comply with IEC61000-4-5(L-N:1KV)						
	EMI	Comply with FCC-PART-15B						
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547						
	Packing (weight)	Carton size: 385*285*210 mm (L*W*H); Net weight: 120g±5%/pc; 9.04KG±5%/ctn;						
Others		Quantity: 12 PCS/layer, 5 layer/ctn, 60 PCS/ctn						
	IP level	IP20						
	Warranty condition	5 years (Tc≤75°C)						

Model	LF-GDE030YD	Series	UL Triac Dimmable Series

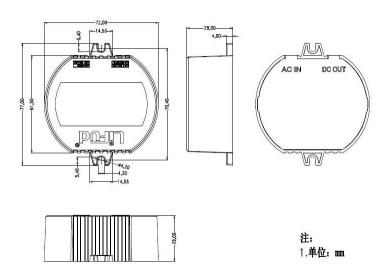
Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: 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 of the finished LED lamp must re-confirm the EMC of the LED lamps.

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 , 80°C .



4. Dimensional Drawing (unit: mm)



5. Wire Connection Diagram:



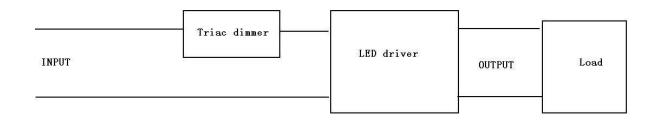
Input wire: UL1015 No.18 multi-stand wire, Black AC-L and White AC-N ,total length of $300mm \pm 10mm$, exposed $250mm \pm 10mm$, tail stripping dip tin $10mm \pm 2mm$

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. Instructions:

(1).Dimming function description:

Diagram:



(2). Compatible Triac Dimmers and Dimming Curve

LUTRON Model:MACL-153M LEVITON Model:TBL03

Model I	LF-GDE030YD	Series	UL Triac Dimmable Series
---------	-------------	--------	--------------------------

