

## 1. Product Description



**Electrical Type:** Isolated LED driver for Class I LED fixtures

**Driver Type:** Flicker-free LED driver

**Function:** 0-10V/PWM/Rx dimming. Specifically designed for LED tri-proof light.

**Product Feature:** active PFC, high PF, high efficiency, low THD

**Application:** indoor office lighting, decorative lighting, commercial lighting & residential lighting.

**Warranty:** 5 years (Please refer to the warranty condition.)

**Certificate:** CE

## 2. Technical Data

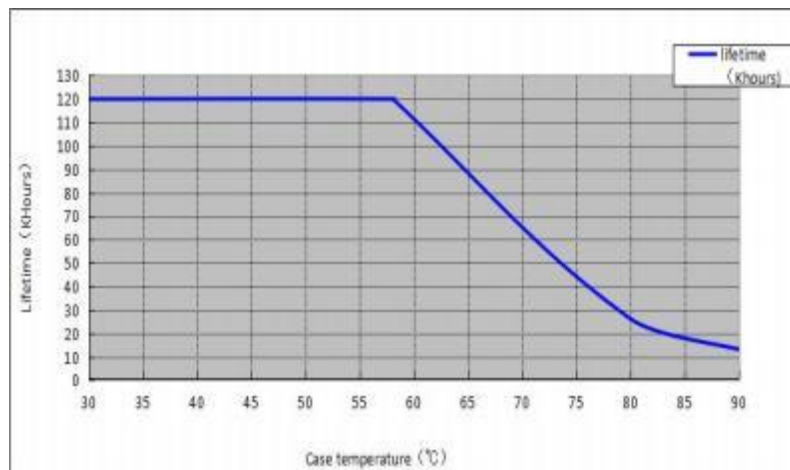
Full Model Number		LF-GLD025YE 0250H	LF-GLD025YE 0300H	LF-GLD025YE 0350H	LF-GLD025YE 0400H	LF-GLD025YE 0450H	LF-GLD025YE 0500H	LF-GLD025YE 0550H
<b>Output</b>	Output Voltage	25-42Vdc						
	Output Current	250mA	300mA	350mA	400mA	450mA	500mA	550mA
	Ripple Voltage	< 2V@50Hz						
	Current Tolerance	±5%						
	Start-up Time	<0.5S @230Vac						
	Temperature Drift	±10%						
	Line Regulation	±5%						
<b>Input</b>	Line Regulation	±5%						
	Input Voltage	220-240Vac (Voltage Limit: 200-264Vac)						
	Input Frequency	47Hz-63Hz						
	Input Current	0.15A Max						
	Power Factor	≥0.95/200Vac	≥0.95/200Vac	≥0.95/200Vac	≥0.95/200Vac	≥0.95/200Vac	≥0.95/200Vac	≥0.95/200Vac
		≥0.90/230Vac	≥0.90/230Vac	≥0.90/230Vac	≥0.90/230Vac	≥0.90/230Vac	≥0.90/230Vac	≥0.90/230Vac
		≥0.80/264Vac	≥0.80/264Vac	≥0.80/264Vac	≥0.80/264Vac	≥0.90/264Vac	≥0.90/264Vac	≥0.90/264Vac
	THD	≤20%						
	Efficiency	≥82%/230Vac	≥83%/230Vac	≥83%/230Vac	≥84%/230Vac	≥85%/230Vac	≥85%/230Vac	≥85%/230Vac
	In-Rush Current	<80A/350uS@230Vac						
Stand-by Power	≤0.5W @200Vac or @ 230Vac							
<b>Protective Feature</b>	Open Circuit Protection	Open circuit voltage ≤ 55Vdc						
	Short Circuit Protection	Hiccup mode (auto-recovery)						

<b>Model</b>	LF-GLD025YE	<b>Series</b>	Flicker-Free & Dimmable LED Driver for Tri-Proof Light
--------------	-------------	---------------	--

<b>Environment Condition</b>	Working Temperature	-30℃ ~ +50℃
	Working Humidity	20-90%RH (no condensation)
	Storage Temperature/Humidity	-40℃ ~ +80℃ (6 months under the class I environment); 10-90%RH (no condensation)
	Atmospheric Pressure	86-106KPa
<b>Safety &amp; Norm</b>	Certificate	CE
	Withstanding Voltage	I/P-O/P: 3.75KVac, <5mA, 60S; I/P-FG:1.6KVac, <5mA 60S; O/P-FG: 0.5KVac, <5mA 60S
	Insulation Resistance	I/P-O/P, I/P-FG, O/P-FG: 500VDC, >100MΩ
	Surge Rating	Conform to IEC61000-4-5 (L-N:1KV, L/N-PG:2KV)
	EMI	EN 55015
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
<b>Others</b>	Package (Weight)	Carton size: 385*285*210 Mm (L*W*H); Weight: 130g±5%/pc; 6.5kg±5%/ctn; Quantity: 48pcs/ctn
	IP Rating	\
	Warranty	5 years (Tc ≤ 73℃)
<b>Testing Equipment</b>	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, stroboscope (flicker parameter tester) 60N-01, etc.	
<b>Testing Condition</b>	If there's no special statement, the parameters above, including the power factor, THD and efficiency, are the test results under the ambient temperature of 25℃ and humidity of 50%, input voltage of 230Vac and 100% load.	
<b>Additional Remark</b>	<ol style="list-style-type: none"> <li>It is recommended that customer should install protective devices in the power-supply loop of the light fixtures for over voltage, for under voltage and for surge to ensure safety use of electricity.</li> <li>The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture must conform to UL94 V-0 FLAMMABILITY STANDARD or above.</li> <li>As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of the whole LED luminaire.</li> </ol>	

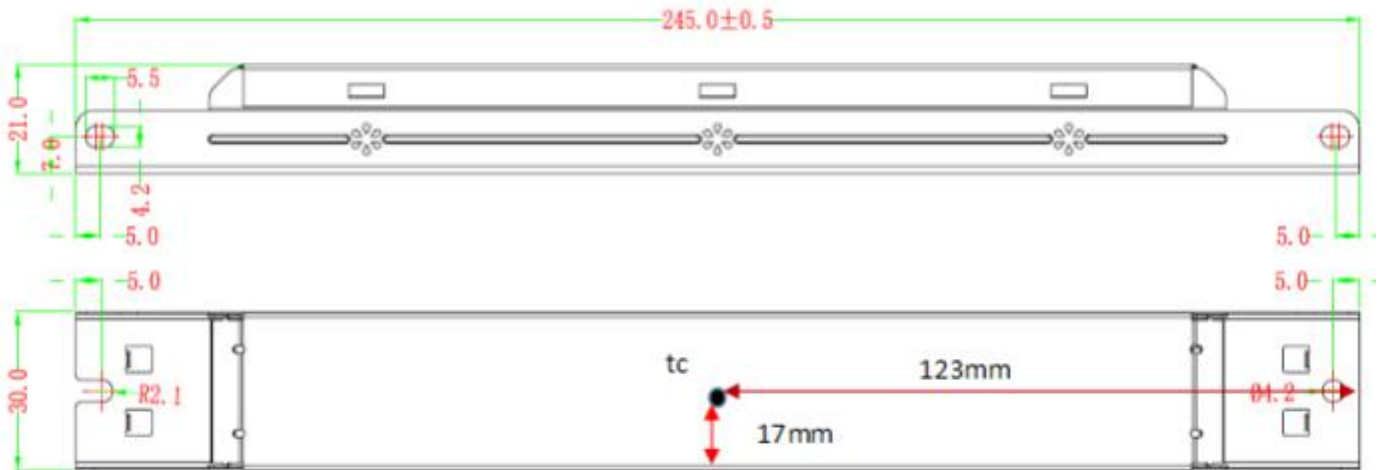
### 3. Product Lifetime Curve

The curve below illustrates the driver's lifetime data when the its maximum case temperature in an airtight space reaches 40℃, 50℃, 60℃, 70℃ and 80℃.

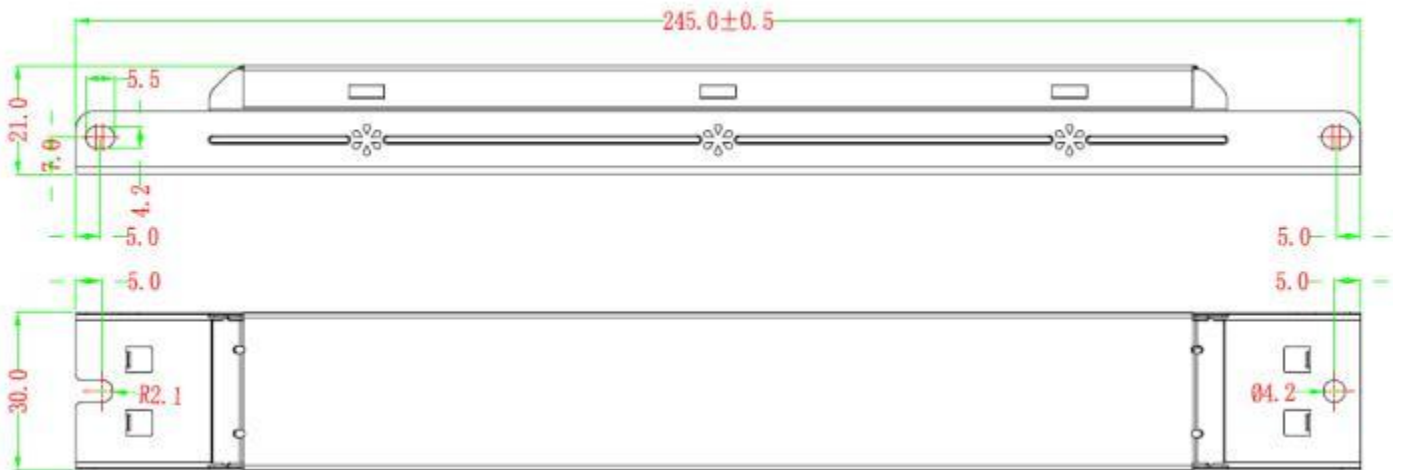


<b>Model</b>	LF-GLD025YE	<b>Series</b>	Flicker-Free & Dimmable LED Driver for Tri-Proof Light
--------------	-------------	---------------	--

4. Diagram of the TC Spot



5. Dimension (Unit: mm; Tolerance: +0.5mm): 245\*30\*21mm



6. Wiring Diagram:



<b>Model</b>	LF-GLD025YE	<b>Series</b>	Flicker-Free & Dimmable LED Driver for Tri-Proof Light
--------------	-------------	---------------	--

## 7. Dimming

Three dimming modes in one driver. The test data below are for your reference only.

1) 0-10V dimming ranges from 10% to 100%. (Tested with a LIFUD 0-10V dimmer.)

Dimming Voltage	0-0.3V	0.5V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of Rated Current	OFF	ON	13%	24%	35%	46%	57%	69%	80%	92%	99%	99%	95%-105%

2) PWM dimming ranges from 10% to 100%. Voltage amplitude: 10V. The frequency of PWM signal is 300Hz~3KHz. (Tested with a PWM signal generator: RIGOL.)

PWM Signal	0-6%	7%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of Rated Current	OFF	ON	12%	25%	36%	47%	58%	69%	80%	91%	99%	99%	95%-105%

3) Resistance dimming ranges from 10% to 100%. Resistance range: 10kΩ~100kΩ. (Tested with a LEVITON dimmer.)

Rx Range	0-5K	6K	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
Percentage of Rated Current	OFF	ON	13%	24%	35%	45%	56%	67%	78%	89%	99%	99%	95%-105%

Remark: The "lout percentage" above are typical values.

<b>Model</b>	LF-GLD025YE	<b>Series</b>	Flicker-Free & Dimmable LED Driver for Tri-Proof Light
--------------	-------------	---------------	--