

1. Product Description



Isolated LED Driver for Class I LED Luminaire

Category: AC100-277V, dimmable, flicker-free

Property: 0-10V/PWM/Rx dim, active PFC, high PF, high efficiency, low THD

Application: indoor office lighting, decorative lighting, commercial lighting & residential lighting. It's specially designed for tri-proof light.

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

Certificate: UL, FCC

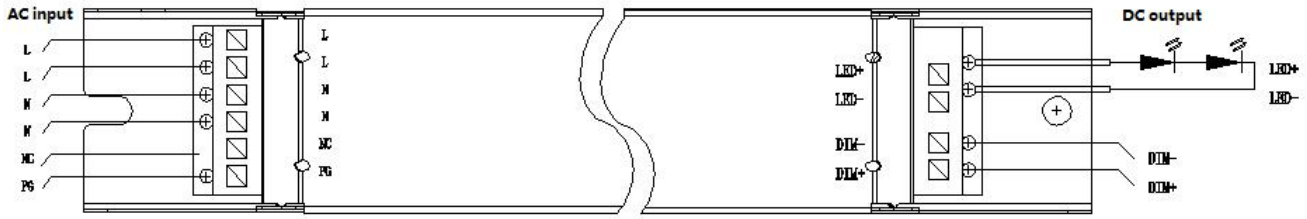


2. Technical Data

	Full Model Number	LF-GLD055YS 1100U	LF-GLD055YS 1150U	LF-GLD055YS 1200U	LF-GLD055YS 1250U	LF-GLD055YS 1300U
Output	Output Voltage	25-42Vdc				
	Output Current	1100mA	1150mA	1200mA	1250mA	1300mA
	Ripple Voltage	< 1V				
	Current Tolerance	±5%				
	Start-up Time	100Vac<1S, 230Vac <0.5S, 277Vac <0.5S				
	Temperature Drift	±10%				
	Line Regulation	±5%				
Input	Line Regulation	±5%				
	Rated Input Voltage	100-277Vac (Voltage Limit: 90-305Vac)				
	Frequency	47Hz-63Hz				
	Input Current	0.75A Max				
	Power Factor	≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac
		≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Va
		≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac
	THD	≤20%				
	Efficiency	≥86%/120Vac	≥86%/120Vac	≥86%/120Vac	≥86%/120Vac	≥86%/120Vac
		≥88%/230Vac	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac
≥87%/277Vac		≥87%/277Vac	≥87%/277Vac	≥87%/277Vac	≥87%/277Vac	
In-Rush Current	I<60A/350uS@230Vac					
Stand-by Power	≤1.0W @120Vac, @230Vac or @ 277Vac					
Protective Feature	Open Circuit Protection	Open circuit voltage ≤ 55Vdc				
	Short Circuit Protection	Hiccup mode (auto-recovery)				
Environment Condition	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				
Safety & Norm	Certificate	UL, FCC				
	Hi-Pot Test	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	Comply with IEC61000-4-5 (L-N:1KV, L/N-PG:2KV)				
	EMI	FCC Part 15 Class B				
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547				
Others	Packing (Weight)	Carton size: 39 x 29 x 21 cm (L*W*H); Net weight: 220g±5%/pc; 8.52KG±5%/ctn; 36pcs/ctn				
	IP Rating	\				
	Warranty	5 years (Max. case temperature must not exceed 67℃)				

Model	LF-GLD055YS	Series	Dimmable & Flicker-free Series for Tri-proof Light
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5. Wiring Diagram:



6. Dimming

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

1) 0-10V dim: dimming range 0%~100%. (Tested with 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%	25%	36%	47%	58%	70%	81%	92%	99%	99%	95%-105%

2) PWM dim: dimming range 0%~100%. Voltage amplitude: 10V. The frequency of PWM signal is 300Hz~3KHz. (Tested with 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	10%	15%	28%	39%	50%	60%	71%	92%	99%	99%	95%-105%

3) Resistance dim: dimming range 0%~100%. Resistance range: 10kΩ~100kΩ. (Tested with LEVITON dimmer.)

Rx Range	0-5K	6K	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
Percentage of Rated Current	OFF	ON	12%	23%	34%	46%	58%	69%	79%	92%	99%	99%	95%-105%

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