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

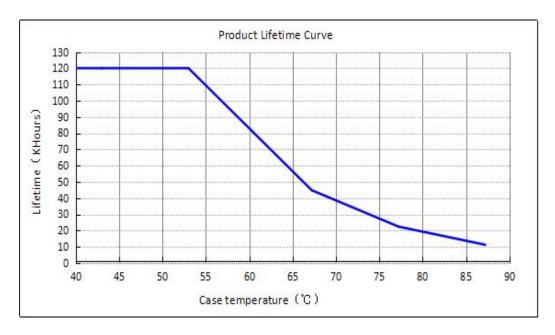
	Full Model Number	LF-GLD055YS	LF-GLD055YS	LF-GLD055YS	LF-GLD055YS	LF-GLD055YS							
		1100U	1150U	1200U	1250U	1300U							
	Output Voltage		1	25-42Vdc									
Ontro	Output Current	1100mA	1150mA	1200mA	1250mA	1300mA							
	Ripple Voltage	<1V											
Output	Current Tolerance	±5%											
	Start-up Time	100Vac<1S, 230Vac <0.5S, 277Vac <0.5S											
	Temperature Drift	±10%											
	Line Regulation	±5%											
	Line Regulation ±5%												
	Rated Input Voltage												
	Frequency												
	Input Current	0.75A Max											
		≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac	≥0.98/120Vac							
	Power Factor	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Va							
T4		≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac	≥0.9/277Vac							
Input	THD	≤20%											
		≥86%/120Vac	≥86%/120Vac	≥86%/120Vac	≥86%/120Vac	≥86%/120Vac							
	Efficiency	≥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	Open Circuit Protection	Open circuit voltage ≤ 55Vdc											
Feature	Short Circuit Protection	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											
	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											
Safety &	Insulation Resistance	I/P-O/P, I/P-FG, O	/P-FG: 500VDC, >1	00ΜΩ									
Norm	Surge Rating	Comply with IEC6	51000-4-5 (L-N:1KV	(, L/N-PG:2KV)									
	EMI	FCC Part 15 Class		,,									
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547											
	Packing (Weight)				5%/pc; 8.52KG±5%/	/ctn; 36pcs/ctn							
Othors	IP Rating	\	(:)	, <u>5 *6</u>	1 /	, <u>,</u>							
Others	Warranty	5 years (May case	temperature must no	ot exceed 67°C)									
	vv arranty	J years (ivian. case	temperature must no	n eneced or c)									



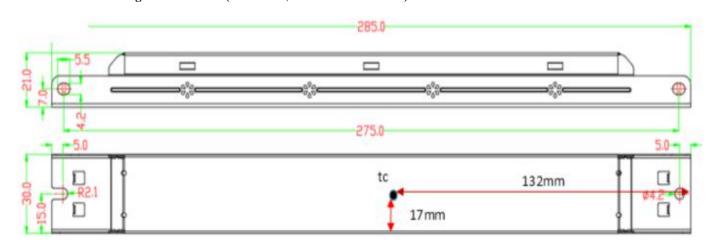
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, stroboscope (flicker index tester) 60N-01, etc.
Testing Condition	If there's no special statement, the parameters above, including the power factor, THD and efficiency, are the test results under the ambient temperature 25°C and humidity 50%, input 120Vac, 230Vac, 277Vac and 90% load.
Additional Remark	 It is recommended that customer should install an over & under voltage protection and surge protection device to ensure safety before connecting to electricity. The PC cover, housing, end caps and other parts of the LED driver inside the LED luminaire must conform to UL94 V-0 flammability standard or above. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED luminaire. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED luminaire manufacturer should re-confirm the EMC of the whole LED luminaire.

3. Product Lifetime Curve

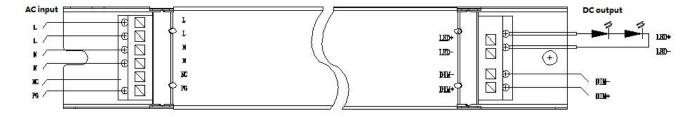
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C and 80°C.



4. Dimensional Drawing with Tc Point (Unit: mm; Tolerance: +0.5mm): 285*30*21mm



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 $0\%\sim100\%$. Resistance range: $10k\Omega\sim100k\Omega$. (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.