

1. Product Description



Isolated LED Driver for Class II LED Luminaire

Category: AC220-240V, plastic case

Property: simple structure, cost effective

Application: indoor office lighting, decorative lighting, commercial lighting, and residential lighting

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

Certificate: TUV, CB, CE, RCM



2. Technical Data (1)

	Full Model Number	LF-GIR060YM1500H	LF-GIR060YM1400H	LF-GIR060YM1300H	LF-GIR060YM1200H
Output	Output Voltage	25-42Vdc			
	Output Current	1500mA	1400mA	1300mA	1200mA
	Ripple Voltage	< 5.0V			
	Current Tolerance	±5%			
	Time to Light	230Vac < 0.5S			
	Temperature Drift	±10%			
	Line Regulation	±5%			
Input	Line Regulation	±5%			
	Rated Input Voltage	220-240 Vac (Max input voltage: 180-264Vac)			
	Frequency	47Hz-63Hz			
	Input Current	0.50A Max			
	Power Factor	≥ 0.90/180Vac	≥ 0.95/230Vac full load	≥ 0.90/264Vac	
	THD	≤ 20%			
	Efficiency	≥ 89% / 220Vac			
	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac			
Typ. Power Input on Stand-By	Pin < 1W				
Protective Features	No-Load	Max. output voltage (no-load voltage) 55V			
	Short-Circuit	Hiccup mode (auto-recovery)			
Environment Condition	Working Temperature	-30°C ~ +50°C			
	Working Humidity	20-90% RH (no condensation)			
	Storage Temperature/Humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90% RH (no condensation)			
	Atmospheric Pressure	86-106KPa			
Safety and Norms	Certificate	TUV, CB, CE, RCM			
	Hi-pot Test	I/P-O/P: 3.75KVac, < 5mA, 60S			
	Insulation	I/P-O/P: 500VDC, >100MΩ			
	Surge Level	Comply with IEC61000-4-5 (L/N:1KV)			
	EMI	Comply with EN55015, EN61000-3-2			
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547			
Others	Packing (Weight)	Net weight: 137g±5%/pc; 66pcs/ctn; 10KG±5%/ctn; Carton size: 39 x 29 x 21 cm (L*W*H)			
	IP Level	IP20			
	Warranty Condition	5 years (Max. case temperature must not exceed 70°C)			

Model	LF-GIR060YM	Series	AC220-240V & Cost Effective
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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 230V and 90% DC load.
Additional Remarks	<p>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.</p> <p>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.</p> <p>3. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wire routing of the light fixture are also relevant. Thus we strongly recommend the manufacturer of the finished LED light fixture re-confirm the EMC of the LED light fixture.</p>

Technical Data (2)

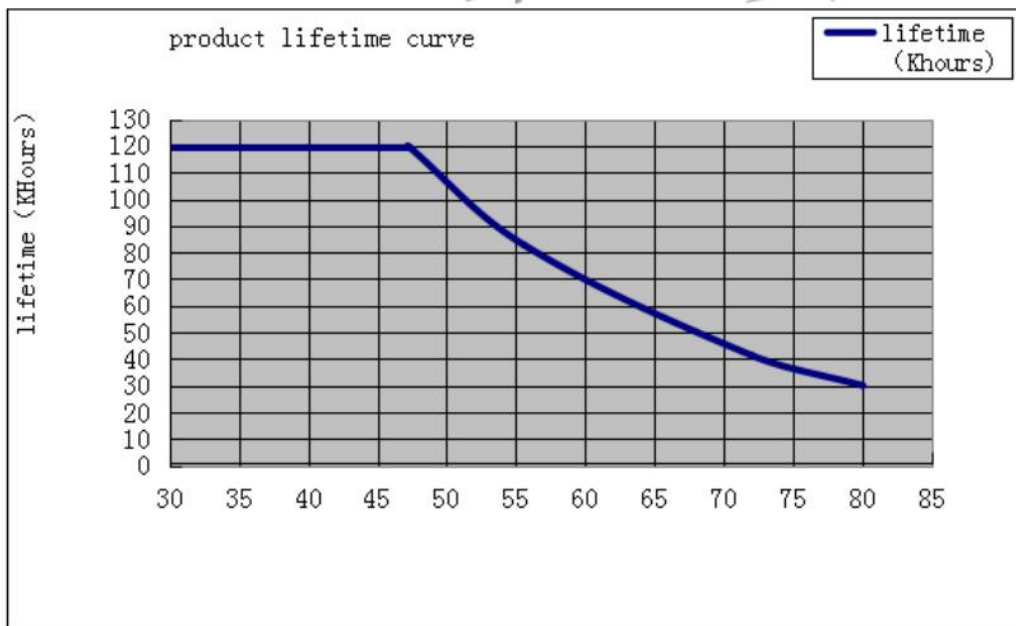
	Full Model Number	LF-GIR060YM1100H	LF-GIR060YM1050H	LF-GIR060YM1000H	LF-GIR060YM0950H	LF-GIR060YM0900H
Output	Output Voltage	40-55Vdc				
	Output Current	1100mA	1050mA	1000mA	950mA	900mA
	Ripple Voltage	< 5.0V				
	Current Tolerance	±5%				
	Time to Light	230Vac < 0.5S				
	Temperature Drift	±10%				
	Line Regulation	±5%				
Input	Line Regulation	±5%				
	Rated Input Voltage	220-240 Vac (Max input voltage: 180-264Vac)				
	Frequency	47Hz-63Hz				
	Input Current	0.50A Max				
	Power Factor	≥ 0.95/180Vac	≥ 0.95/230Vac	≥ 0.90/264Vac		
	Power Factor	full load				
	THD	≤ 20%				
	Efficiency	≥ 89% @ 230Vac				
Protective Features	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac				
	Typ. Power Input on Stand-By	Pin < 1W				
Protective Features	No-Load	Max. output voltage (no-load voltage) 70V				
	Short-Circuit	Hiccup mode (auto-recovery)				
Environment Condition	Working Temperature	-30°C ~ +50°C				
	Working Humidity	20-90% RH (no condensation)				
	Storage Temperature/Humidi	-40°C ~ +80°C (6 months under the class I environment); 10-90% RH (no condensation)				
	Atmospheric Pressure	86-106KPa				
Safety and Norms	Certificate	TUV, CB, CE, RCM				
	Hi-pot Test	I/P-O/P: 3.75KVac, < 5mA, 60S				
	Insulation	I/P-O/P: 500VDC, >100MΩ				
	Surge Level	Comply with IEC61000-4-5 (L/N:1KV)				
	EMI	Comply with EN55015, EN61000-3-2				
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547				
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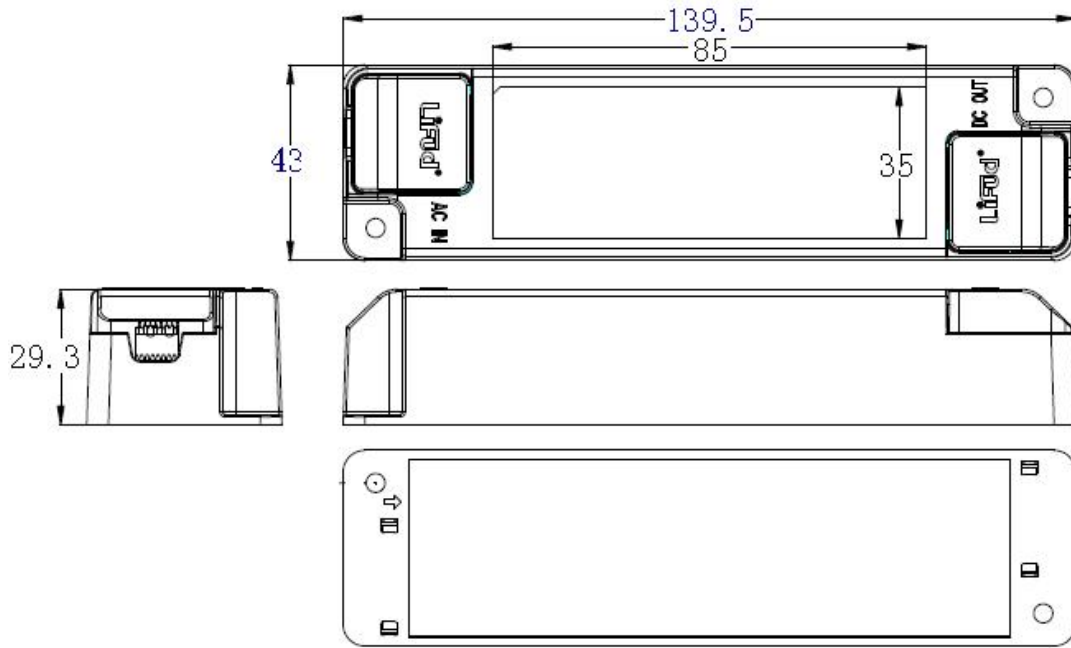
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3. Product Referenced Lifetime Curve

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 and 90°C.



4. Dimensional Drawing (unit: mm, tolerance: ±0.5mm)



5. Wiring Diagram:



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