



SPECIFICATION FOR APPROVAL

Customer: _____

Product Material No.: _____

Model No. _____ **LF-GMR050YE** _____

Version : _____ **V3.0** _____

Manufacturer: _____ **Sichuan Ledfriend Technology Co., Ltd** _____

Customer Approval

Tested by	Checked by	Approved by

Ledfriend Approval

Tested by	Checked by	Approved by

The full model numbers required by customers

Full model No.		Full model No.	
Full model No.		Full model No.	

E.C. List

Version	Description of change	Engineer	Date
3.0	format change	Li Changru	2015-10-22

Shenzhen Ledfriend Optoelectronics Co., Ltd.
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Shenzhen, China 518126
www.lifud.com, China service hotline: 400-096-6815 (China technical support: 13410244507)

Model	LF-GMR050YE	Series	AC220-240V typical metal case
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1. Product description



Isolated LED driver, originally designed for class I LED luminaires and also suitable for the class II luminaires.

Category: typical AC220-240V metal case series.

Product properties: active PFC, high PF, high efficiency, low THD.

Application: tri-proof lights, grid lights and linear lights etc.

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

Certificates:



2. Technical Data(1)

	Full model number	LF-GMR050YE 1050H(U)	LF-GMR050YE 1100H(U)	LF-GMR050YE 1150H(U)	LF-GMR050YE 1200H(U)	LF-GMR050YE 1250H(U)
Output	Output voltage	27-40VDC	27-40VDC	27-40VDC	27-40VDC	27-40VDC
	Output current	1050mA	1100mA	1150mA	1200mA	1250mA
	Ripple current	≤345mA				
	Ripple voltage	≤4V				
	Current tolerance	±5%				
	Time to light	230Vac ≤0.5S				
	Temperature drift	±10%				
	Output Line regulation	±5%				
Input	Input Line regulation	±5%				
	Rated input voltage	220-240 Vac, (Max input voltage: 180-264Vac)				
	Frequency	47Hz-63Hz				
	Input current	0.5A Max				
	Power factor	≥0.95@230Vac				
	THD	≤15%@230Vac				
	Efficiency	≥88%@230Vac				
	In-rush current (peak/duration)	I<60A/350uS@230Vac				
Protective features	Typ. power input on stand-by	Pin<1W				
	No-load	Max. output voltage (no-load voltage) 55V				
Environment condition	Short-circuit	Hiccup mode (auto-recovery)				
	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)				
Safety and norms	Atmospheric pressure	86-106KPa				
	Certifications	TUV, CE, RCM, CB				
	Hi-pot test	I/P-O/P:3.75KVac,<5mA 60S I/P-PG:1.6KVac,<5mA 60S				
	Insulation resistance	I/P-O/P:500VDC,>100MΩ				
	Surge level	Comply with the IEC61000-4-5(L/N:2KV,L/PG:4KV,N/PG:4KV)				
	EMI	Comply with EN55015, EN61000-3-2				
Others	EMS	Comply with N61000-4-2,3,4,5,6,8,11; EN61547.				
	Packaging	Carton Size: 385*285*210mm(L*W*H); Weight: 190g±5%/pc; Gross weight: 7.7KG±5%/ctn; 36pcs/ctn				
	IP level	/				
Testing equipment	Warranty	5 years (Max. case temperature must not exceed 70℃).				
	Test conditions	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.				

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Additional Remark	<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 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.</p>
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3. Technical Data (2)

	Full model number	LF-GMR050YE 0750H(V)	LF-GMR050YE 0800H(V)	LF-GMR050YE 0850H(V)	LF-GMR050YE 0900H(V)
Output	Output voltage	35-55VDC	35-55VDC	35-55VDC	35-55VDC
	Output current	750mA	800mA	850mA	900mA
	Ripple current	≤270mA			
	Ripple voltage	≤5.5V			
	Current tolerance	±5%			
	Time to light	230Vac ≤0.5S			
	Temperature drift	±10%			
	Output Line regulation	±5%			
Input	Input Line regulation	±5%			
	Rated input voltage	220-240Vac (extreme voltage: 180-264Vac)			
	Frequency	47Hz-63Hz			
	Input current	0.5A Max			
	Power factor	≥0.95@230Vac			
	THD	≤15%@230Vac			
	Efficiency	≥87%@230Vac			
	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℃~+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 and norms	Certifications	TUV, CE, RCM, CB			
	Hi-pot test	I/P-O/P:3.75KVac,<5mA 60S I/P-PG:1.6KVac,<5mA 60S			
	Insulation resistance	I/P-O/P:500VDC,>100MΩ			
	Surge level	Comply with the IEC61000-4-5(L/N:2KV,L/PG:4KV,N/PG:4KV)			
	EMI	Comply with EN55015, EN61000-3-2			
	EMS	Comply with N61000-4-2,3,4,5,6,8,11; EN61547.			
Others	Packaging	Carton Size:385*285*210mm(L*W*H); Weight: 190g±5%/pc; Gross weight: 7.7KG±5%/ctn; 36pcs/ctn			
	IP level	/			
	Warranty	5 years (Max. case temperature must not exceed 70℃).			
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℃ and humidity 50%, AC input 230V and 90% output load.				

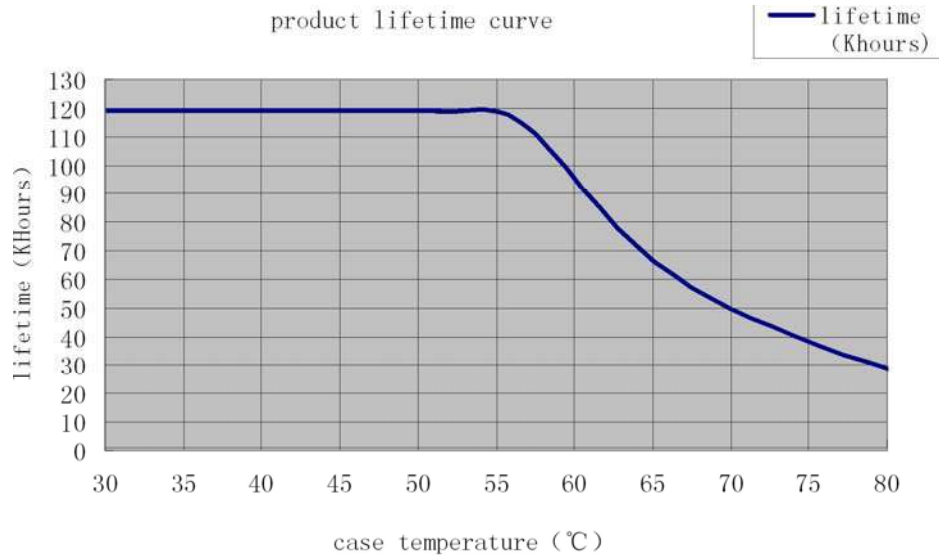
Model	LF-GMR050YE	Series	AC220-240V typical metal case
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Additional Remark

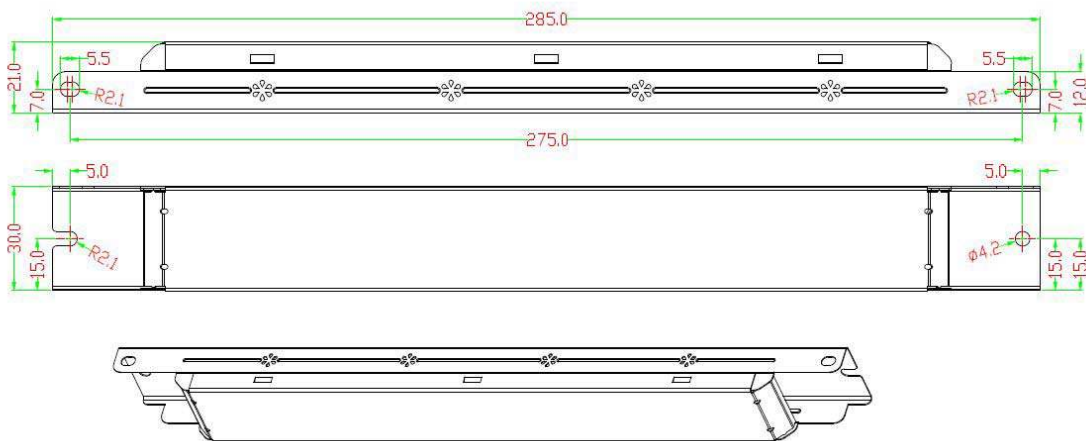
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3. As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps.

4. Product Referenced Lifetime Curve

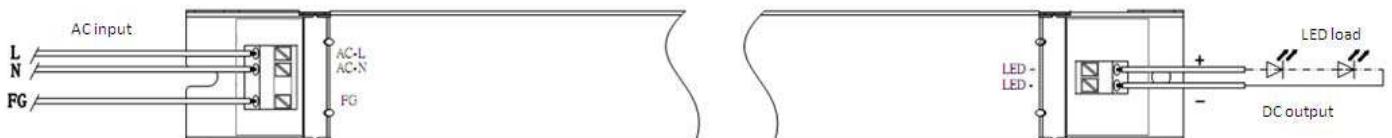
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C, 80°C.



5. Dimensional Drawing(mm)



6. Wire connection Diagram



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