

SPECIFICATION FOR APPROVAL

	Customer:		
	Product Material	No.:	
	Model No.:	LF-GIR040YM	
	Version:	V1.0	
Customer Appr	roval		
Tested	d by	Checked by	Approved by
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Lifud Technology Co., Ltd

original version

Version

1.0

4&5/F, Bldg 14A, Taihua Wutong Island, Gushu, Xixiang St., Bao'an Dist., Shenzhen 518126, China www.lifud.com | China service hotline: 400-096-6815 (China technical support: 13410240457)

Description of Change

Engineer

Li Long

Date

2016-09-21

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- GIR040YM0800H	LF- GIR040YM0850H	LF- GIR040YM0900H	LF- GIR040YM0950H
	Output Voltage	25-42Vdc			•
	Output Current	800mA	850mA	900mA	950mA
	Ripple Voltage	< 4.0V			
Output	Current Tolerance	±5%			
Output	Time to Light	230Vac < 0.5S			
	Temperature Drift	±10%			
	Line Regulation	±5%			
	Line Regulation	±5%			
	Rated Input Voltage	220-240 Vac (Max inpu	t voltage: 180-264Vac)		
	Frequency	47Hz-63Hz			
	Input Current	0.30A Max			
	Power Factor	≥ 0.95 @ 230Vac (full l	oad); ≥0.90 @230Vac (lo	ow load)	
	THD	≤ 20%			
<u>.</u>	Efficiency	≥ 88% @ 230Vac			
Input	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac			
	Typ. Power Input on Stand-By	Pin < 1W			
Protective	No-Load	Max. output voltage (no-load voltage) 55V Hiccup mode (auto-recovery)			
Features	Short-Circuit				
	Working Temperature	-30°C ∼ +50°C			
Environment	Working Humidity	20-90% RH (no condensation)			
Condition	Storage Temperature/Humidi	-40°C ~ +80°C (6 months under the class I environment); 10-90% RH (no condensation)			
	Atmospheric Pressure	86-106KPa			
	Certificate	TUV, CB, CE, RCM			
	Hi-pot Test	I/P-O/P: 3.75KVac, < 5mA, 60S			
Safety and	Insulation	I/P-O/P: 500VDC, >100MΩ			
Norms					
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547			
	Packing (Weight)	1.5	; 98pcs/ctn; 9KG±5%/ctn;		cm (L*W*H)
Others	IP Level	IP20			
Juicis	Warranty Condition	5 years (Max. case temperature must not exceed 80°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, 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	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. 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. 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.

Technical Data (2)

	Full Model Number	LF-GIR040YM1000H	LF-GIR040YM1050H		
	Output Voltage	25-42Vdc	25-40Vdc		
	Output Current	1000mA	1050mA		
	Ripple Voltage	<4.0V			
0	Current Tolerance	±5%			
Output	Time to Light	230Vac < 0.5S			
	Temperature Drift	±10%			
	Line Regulation	±5%			
	Line Regulation	±5%			
	Rated Input Voltage	220-240 Vac (Max input voltage: 180-264Vac)			
	Frequency	47Hz-63Hz			
	Input Current	0.30A Max			
	Power Factor	\geq 0.95 @ 230Vac (full load); \geq 0.90 @230Vac (lo	ow load)		
	THD	≤ 20%			
I4	Efficiency	≥ 88% @ 230Vac			
Input	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac			
	Typ. Power Input on Stand-By	Pin < 1W			
Protective No-Load Max. output voltage (no-load voltage) 55V					
Features	Short-Circuit Hiccup mode (auto-recovery)				
	Working Temperature	-30°C ∼+50°C			
Environment	Working Humidity	20-90% RH (no condensation)			
Condition	Storage Temperature/Humidi	-40 °C $\sim +80$ °C (6 months under the class I environment); 10-90% RH (no condensation)			
	Atmospheric Pressure	86-106KPa			
	Certificate	TUV, CB, CE, RCM			
	Hi-pot Test	I/P-O/P: 3.75KVac, < 5mA, 60S			
Safety and	Insulation	I/P-O/P: 500VDC, >100MΩ			
Norms	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			
	Packing (Weight)	Net weight: 90g±5%/pc; 98pcs/ctn; 9KG±5%/ctn;			
Others	IP Level	IP20			
	Warranty Condition	5 years (Max. case temperature must not exceed 80°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, 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	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. 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. 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.

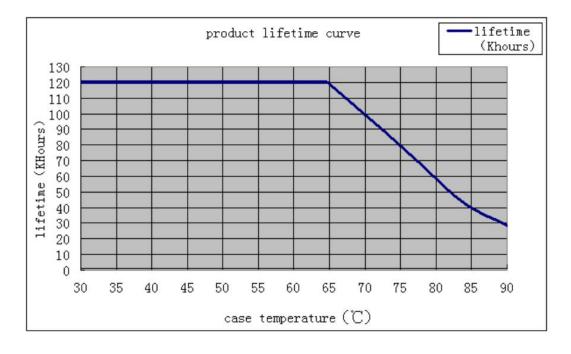
Technical Data (3)

	Full Model Number	LF- GIR040YM0600H	LF- GIR040YM0650H	LF- GIR040YM0700H	LF- GIR040YM0750H
	Output Voltage	40-55Vdc			
	Output Current	600mA	650mA	700mA	750mA
	Ripple Voltage	< 6.0V	I .		
_	Current Tolerance	±5%			
Output	Time to Light	230Vac < 0.5S			
	Temperature Drift	±10%			
	Line Regulation ±5%				
	Line Regulation	±5% 220-240 Vac (Max input voltage: 180-264Vac) 47Hz-63Hz			
	Rated Input Voltage				
	Frequency				
	Input Current	0.30A Max			
	Power Factor	≥ 0.95 @ 230Vac (full 1	oad); ≥0.90 @230Vac (lo	ow load)	
	THD	≤ 20%		· ·	
	Efficiency	≥ 88% @ 230Vac			
Input	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac			
	Typ. Power Input on Stand-By	Pin < 1W			
Protective	No-Load	Max. output voltage (no-load voltage) 55V Hiccup mode (auto-recovery)			
Features	Short-Circuit				
	Working Temperature	-30°C ∼ +50°C			
Environment	Working Humidity	20-90% RH (no condensation)			
Condition	Storage Temperature/Humidi	-40°C ~ +80°C (6 months under the class I environment); 10-90% RH (no condensation)			
	Atmospheric Pressure	86-106KPa			
	Certificate	TUV, CB, CE, RCM			
	Hi-pot Test	I/P-O/P: 3.75KVac, < 5	mA, 60S		
Safety and	Insulation	I/P-O/P: 500VDC, >100)ΜΏ		
Norms					
	EMI	Comply with EN55015,	EN61000-3-2		
	EMS	Comply with EN61000-4-2,3,4,5,6,8,11; EN61547			
	Packing (Weight)	Net weight: 90g±5%/pc	; 98pcs/ctn; 9KG±5%/ctn;	Carton size: 38 x 28 x 30	cm (L*W*H)
Others	IP Level	IP20			
Others	Warranty Condition	5 years (Max. case temperature must not exceed 80°C)			

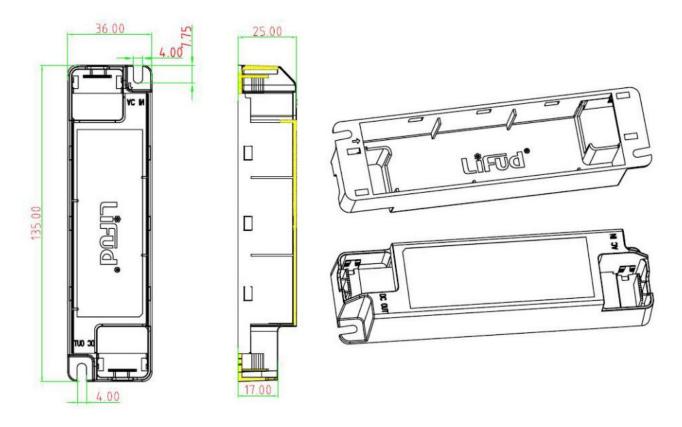
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, 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	 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. 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. 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.

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: ± 0.5 mm)



5. Wiring Diagram:

