深圳莱福德科技股份有限公司
LIFUD TECHNOLOGY CO., LTD.

Specification for Approval

Customer: _____

Product Material No.: _____

Model No.: LF-GIR050YMII

Version: V1.0

Customer Approval

Tested by	Checked by	Approved by

Lifud Approval

Tested by	Checked by	Approved by

Full Model Numbers Required by the Customer

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

E. C. List

Version	Description of Change	Engineer	Date
1.0	original version	Chen Min	2018-01-31

Lifud Technology Co., Ltd
4&5/F, Bldg 14A, Taihua Wutong Island, Gushu, Xixiang St., Bao'an Dist., Shenzhen 518126, China
www.lifud.com | Technical support: +86 755 83739299 (working hours: 08:30-18:00 on weekdays)

1. Product Description

Isolated LED Driver for Class II LED Luminaire

Category: AC220-240V, non-dimmable

Property: active PFC, high performance, high efficiency, low THD

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

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

Certificate: ENEC, CB, CE, RCM, SAA, KC, CCC

Remark: KC certificate does NOT include LF-GIR050YMII of DC40-55V output.

2. Technical Data (1)

	Full Model Number	LF-GIR050YMII1300H	LF-GIR050YMII1250H	LF-GIR050YMII1200H	LF-GIR050YMII1150H
Output	Output Voltage	25-42Vdc			
	Output Current	1300mA	1250mA	1200mA	1150mA
	Ripple Voltage	≤ 4.2V			
	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	0.45A Max			
	Power Factor	≥ 0.95 / 240Vac (full load)			
	THD	≤ 20%			
	Efficiency	≥ 90% / 230Vac (full load)			
	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac			
	Stand-by Power	Pin < 1W			
Protective Feature	No-Load	Max. output voltage (no-load voltage) 55V			
	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 & Norm	Certificate	ENEC, CB, CE, RCM, SAA, KC, CCC			
	Hi-pot Test	I/P-O/P: 3.75KVac, ≤ 5mA, 60S			
	Insulation Resistance	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: 104g±5%/pc; 66pcs/ctn; 8.52KG±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 85℃)			
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 Condition	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% DC load.
Additional Remark	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. 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. 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.

Technical Data (2)

	Full Model Number	LF-GIR050YMII1100H	LF-GIR050YMII1050H	LF-GIR050YMII1000H
Output	Output Voltage	25-42Vdc		
	Output Current	1100mA	1050mA	1000mA
	Ripple Voltage	≤ 4.2V		
	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	0.45A Max		
	Power Factor	≥ 0.95 / 240Vac (full load)		
	THD	≤ 20%		
	Efficiency	≥ 89% / 230Vac (full load)		
	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac		
	Stand-by Power	Pin < 1W		
Protective Feature	No-Load	Max. output voltage (no-load voltage) 55V		
	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 & Norm	Certificate	ENEC, CB, CE, RCM, SAA, KC, CCC		
	Hi-pot Test	I/P-O/P: 3.75KVac, ≤ 5mA, 60S		
	Insulation Resistance	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: 104g±5%/pc; 66pcs/ctn; 8.52KG±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 85℃)		
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 Condition	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% DC load.			

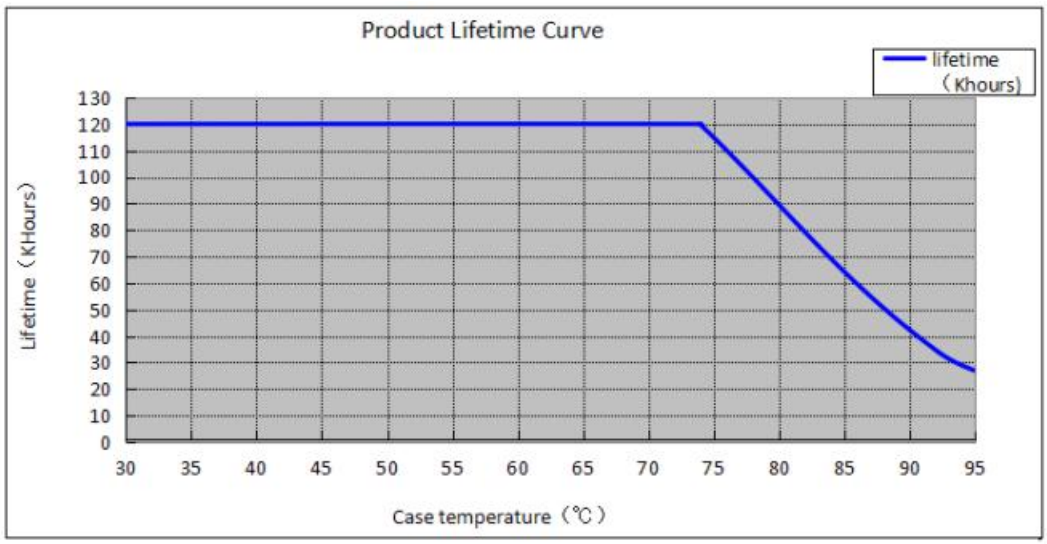
Additional Remark	1. In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity. 2. The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above. 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.

Technical Data (3)

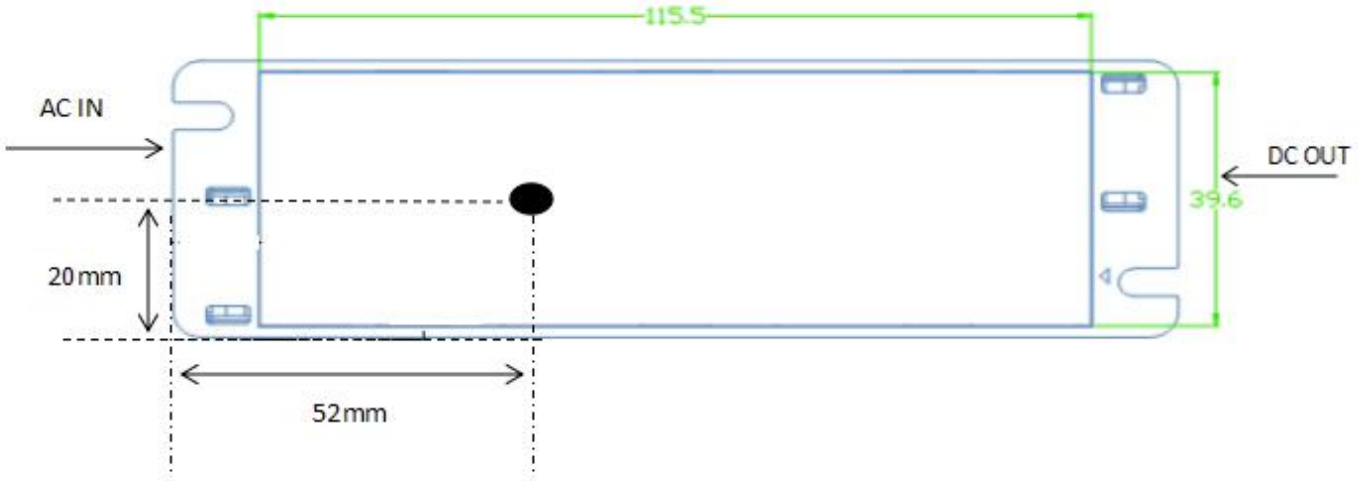
	Full Model Number	LF-GIR050YMII0900H	LF-GIR050YMII0850H	LF-GIR050YMII0800H
Output	Output Voltage	40-55Vdc		
	Output Current	900mA	850mA	800mA
	Ripple Voltage	≤ 4.2V		
	Current Tolerance	±5%		
	Time to Light	230Vac ≤ 0.5S		
	Temperature Drift	±10%		
	Line Regulation	±5%		
Input	Line Regulation	±5%		
	Rated Input Voltage	220-240 Vac (Max input voltage: 180-264Vac)		
	Frequency	47Hz-63Hz		
	Input Current	0.45A Max		
	Power Factor	≥ 0.95 / 240Vac (full load)		
	THD	≤ 20%		
	Efficiency	≥ 89% / 230Vac (full load)		
	In-Rush Current (Peak / Duration)	I < 60A/350uS@230Vac		
	Stand-by Power	Pin < 1W		
Protective Feature	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 & Norm	Certificate	ENEC, CB, CE, RCM, SAA, CCC		
	Hi-pot Test	I/P-O/P: 3.75KVac, ≤ 5mA, 60S		
	Insulation Resistance	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: 104g±5%/pc; 66pcs/ctn; 8.52KG±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 85℃)		
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 Condition	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% DC load.			
Additional Remark	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. 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. 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.			

3. Product Referenced Lifetime Curve

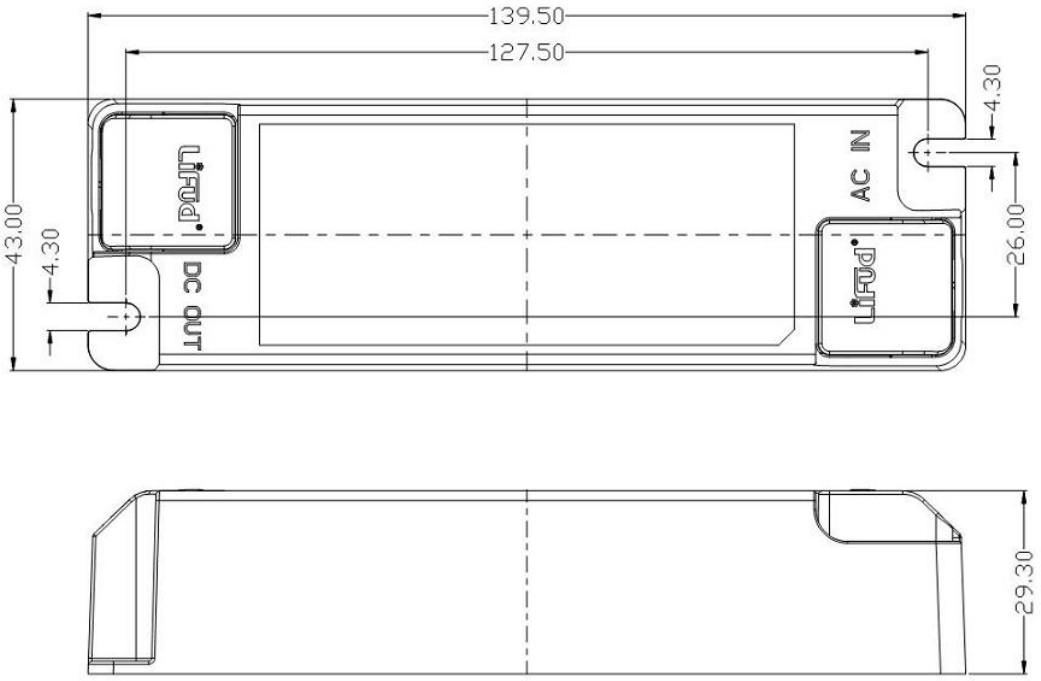
(1) The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40℃, 50℃, 60℃, 70℃, 80℃ and 90℃.



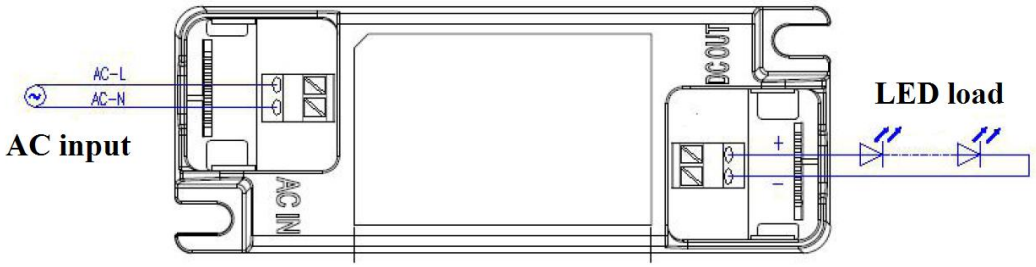
(2) TC test point is at the bottom of the housing.



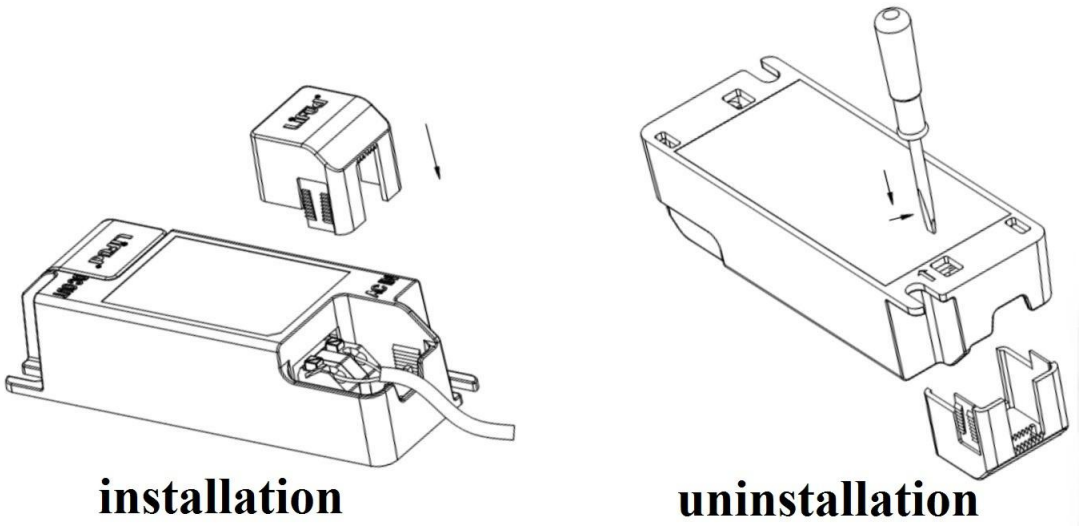
4. Dimensional Drawing (unit: mm, tolerance: ±0.5mm)



5. Wiring Diagram:



6. Installation & Uninstallation of End Caps:



Model	LF-GIR050YMII	**Series**	AC220-240V, Non-Dimmable