

1. Product description



Isolated LED driver suitable for class II LED luminaires. Category: typical AC220-240V plastic case series. Product properties: active PFC, high performance, high efficiency, low THD. Application: commercial, residential and decorative lighting. Warranty: 5 years (please refer to the warranty condition).

Certifications:



2. Technical data (1)

	Full model number	LF-GIR040YM 0800H	LF-GIR040YM 0850H	LF-GIR040YM 0900H	LF-GIR040YM 0950H		
	Output voltage	25-42 VDC					
	Output current	800mA	850mA	900mA	950mA		
	Ripple voltage	≤4V					
Output	Current tolerance	±5% .					
	Time to light	230Vac <0.5S					
	Temperature drift	±10%					
	Output Line regulation	±5%					
	Input Line regulation	±5%					
	Input voltage	220-240 Vac, (Max input voltage: 180-264Vac)					
	Frequency	47Hz-63Hz					
	Input current	0.3A Max					
Input	Power factor	≥0.94/230Vac	≥0.94/230Vac	≥0.94/230Vac	≥0.94/230Vac		
put	THD	≤20%					
	Efficiency	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac	≥88%/230Vac		
	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-re	ecovery)				
	Working temperature	$-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$					
Environment	Working humidity	20-90%RH (no condensation)					
condition	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)					
	Atmospheric pressure	86-106KPa					
	Certifications	TUV, RCM, CE, CB					
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S					
Safety and	Insulation resistance	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/carton; 9.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).					
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 includin humidity 50%, AC input 230V	including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and ut 230V and 90% output load.					
Additional Remark	 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 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. 						

2037_Lifud LED Vorschaltgerät 42W 1000mA 25-42VDC



Technical data (2)

	Full model number	LF-GIR040YM1000H	LF-GIR040YM1050H				
	Output voltage	25-42 VDC	25-40 VDC				
	Output current	1000mA 1050mA					
	Ripple voltage	≤4V					
Output	Current tolerance	±5%					
	Time to light	230Vac <0.5S					
	Temperature drift	±10%					
	Output Line regulation	±5%					
	Input Line regulation ±5%						
	Input voltage 220-240 Vac, (Max input voltage: 180-264Vac)						
	Frequency	47Hz-63Hz					
	Input current	0.3A Max					
Input	Power factor	≥0.94/230Vac ≥0.94/230Vac					
put	THD	<u></u>					
	Efficiency	≥88%/230Vac	≥88%/230Vac				
	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)	Hiccup mode (auto-recovery)				
	Working temperature	-30°C ~ +50°C					
Environment	Working humidity	20-90%RH (no condensation)					
condition	Storage temperature/humidity	-40° C ~ $+80^{\circ}$ C (6 months under the class I environment); 10-90%RH (no condensation)					
	Atmospheric pressure	86-106KPa					
	Certifications	TUV, RCM, CE, CB					
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S					
Safety and	Insulation resistance	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/carton; 9.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).					
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	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and						
conditions		dity 50%, AC input 230V and 90% output load.					
Additional Remark	 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 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.						

Technical data (3)

	Full model number	LF-GIR040YM 0600H	LF-GIR040YM 0650H	LF-GIR040YM 0700H	LF-GIR040YM 0750H	
	Output voltage		40-55 VDC			
	Output current	600mA	650mA	700mA	750mA	
	Ripple voltage	≤4V				
Output	Current tolerance	±5%				
	Time to light	230Vac <0.5S				
	Temperature drift	±10%				
	Output Line regulation	±5%				
Input	Input Line regulation	it Line regulation ±5%				
Input voltage 220-240 Vac, (Max input voltage: 180-264Vac)			ac)			

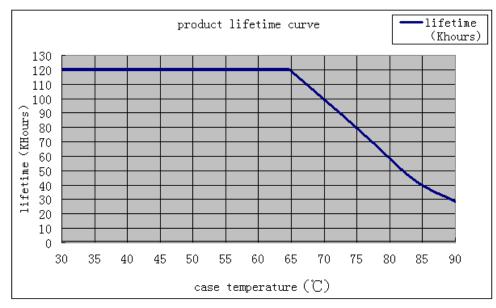
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	Frequency	47Hz-63Hz					
	Input current	0.3A Max					
	Power factor	≥0.94/230Vac	≥0.94/230Vac	≥0.94/230Vac	≥0.94/230Vac		
	THD	≤20%					
	Efficiency	$\geq 88\%/230$ Vac $\geq 88\%/230$ Vac $\geq 88\%/230$ Vac $\geq 88\%/230$ Vac					
	In-rush current (peak /duration)	I<60A/350uS@230Va	ac				
	Typ. power input on stand-by	Pin<1W					
Protective	No-load	Max. output voltage (no-load voltage) 70V					
features	Short-circuit	Hiccup mode (auto-recovery)					
	Working temperature	-30°C ~ +50°C					
Environment	Working humidity	20-90%RH (no condensation)					
condition	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)					
	Atmospheric pressure	86-106KPa					
	Certifications	TUV, RCM, CE, CB					
	Hi-pot test	I/P-O/P: 3.75KVac, <5mA, 60S					
Safety and	Insulation resistance	I/P-O/P: 500VDC, >100MΩ					
norms	Surge level	Comply with IEC61000-4-5 (L/N: 1KV) Comply with EN55015, EN61000-3-2.					
	EMI						
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.					
	Packing (weight)	Net weight: 90g±5%/pc; 98pcs/carton; 9.0KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).					
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	-	he parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and					
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Additional Remark	 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 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. 						

3. Product Referenced Lifetime Curve

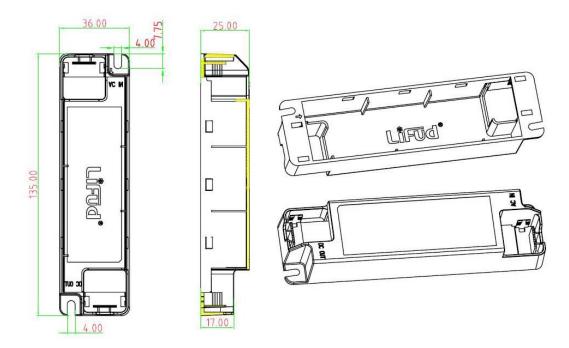
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C, 80°C, 90°C.



	Model	LF-GIR040YM	Series	AC220-240V typical plastic case series
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4. Dimensional Drawing (unit: mm)



5. Wire Connection Diagram:



Model	LF-GIR040YM	Series	AC220-240V typical plastic case series
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