

Product Description



Electrical type: Isolated LED driver for class II light fixtures

Category: AC220-240V, flicker free, percent flicker $\leq 1\%$

Product property: simple structure, high cost performance

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

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

Certification: CE, CB, RCM, ENEC, CCC



Technical Data (1)

Model		LF-GIF015YA0350H	LF-GIF015YA0300H	LF-GIF015YA0250H	LF-GIF015YA0200H	LF-GIF015YA0180H
Output	Output Voltage	25-40Vdc				
	Output Current	350mA	300mA	250mA	200mA	180mA
	Ripple Voltage	<1V				
	Current Tolerance	$\pm 5\%$ @ 230VAC				
	Start-up Time	<0.5s				
	Temperature Drift	$\pm 10\%$				
	Line Regulation	$\pm 5\%$				
Input	Line Regulation	$\pm 5\%$				
	Rated Input Voltage	220-240VAC (voltage limit: 180-264Vac)				
	Input Frequency Range	47-63Hz				
	Input Current	0.10A Maximum				
	Power Factor	>0.9 @ 230VAC				
	Total Harmonic Distortion	<20%				
	Efficiency	$\geq 83\%$	$\geq 83\%$	$\geq 83\%$	$\geq 82\%$	$\geq 81\%$
	Inrush Current	<60A & 350uS @ 230VAC				
	Standby Power Consumption	<0.5W				
Protective Feature	Open-Circuit Protection	Open-circuit voltage < 55Vdc				
	Short-Circuit Protection	Hiccup mode (auto-recovery)				
Environment Condition	Working Temperature	$-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$				
	Working Humidity	20-90%RH (no condensation)				
	Storage Temperature/Humidity	$-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$ (six months under class I environment); 10-90%RH (no condensation)				

	Atmospheric Pressure	86KPa-106KPa
Safety & Norm	Certification	CE, CB, RCM, ENEC, CCC
	Withstand Voltage	I/P-O/P: 3.75KV, <5mA, 60s
	Insulation Resistance	I/P-O/P: 500VDC, >100MΩ
	Surge Rating	IEC61000-4-5 (L-N: 1KV)
	Electromagnetic Interference	EN55015, EN61000-3-2
	Electromagnetic Susceptibility	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
Others	Package (Weight)	Carton size: 385*285*210mm (L*W*H); Weight: 58g ±5%/pc, 9.28kg ±5%/ctn; Quantity: 20 pcs/layer, 8 layers/ctn, 160 pcs/ctn
	IP Rating	IP20
	Warranty	5 years (Tc≤ 82°C)
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, lightning surge generator: Everfine EMS61000-5B, hi-pot tester: TH9201B and stroboscope.	
Testing Condition	Unless otherwise stated, the parameters of the power factor, THD and efficiency are the test results under the ambient temperature of 25°C and humidity of 50%, AC input of 230V and 90% load.	
Remark	<ol style="list-style-type: none"> 1. It is recommended that customer should install overvoltage and undervoltage protection devices and surge protection devices to ensure safety before connecting to electricity. 2. The PC cover, housing, end caps and other parts of the LED driver inside the LED light fixture must conform to UL94-V0 flammability standard 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 wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer re-confirms the EMC of the whole LED light fixture. 	

Technical Data (2)

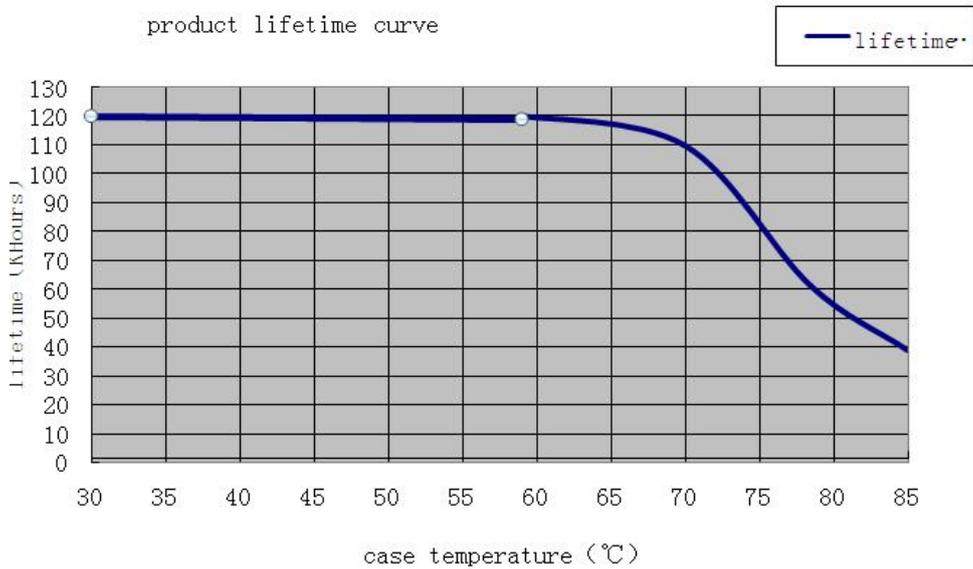
Model		LF-GIF015YA0150H	LF-GIF015YA0100H
Output	Output Voltage	25-40V	
	Output Current	150mA	100mA
	Ripple Voltage	<1V	
	Current Tolerance	±5% @ 230VAC	
	Start-up Time	<0.5s	
	Temperature Drift	±10%	
	Line Regulation	±5%	
Input	Line Regulation	±5%	
	Rated Input Voltage	220-240VAC (voltage limit: 180-264VAC)	

Input	Input Frequency Range	47-63Hz	
	Input Current	0.10A Max	
	Power Factor	>0.9 @ 230VAC	
	Total Harmonic Distortion	<20%	
	Efficiency	≥78%	≥78%
	Inrush Current	<60A & 350uS @ 230VAC	
	Standby Power Consumption	<0.5W	
Protective Feature	Open-Circuit Protection	Open-circuit voltage < 55Vdc	
	Short-Circuit Protection	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 (six months under class I environment); 10-90%RH (no condensation)	
	Atmospheric Pressure	86KPa-106KPa	
Safety & Norm	Certification	CE, CB, RCM, ENEC, CCC	
	Withstand Voltage	I/P-O/P: 3.75KV, <5mA, 60s	
	Insulation Resistance	I/P-O/P: 500VDC, >100MΩ	
	Surge Rating	IEC61000-4-5 (L-N: 1KV)	
	Electromagnetic Interference	EN55015, EN61000-3-2	
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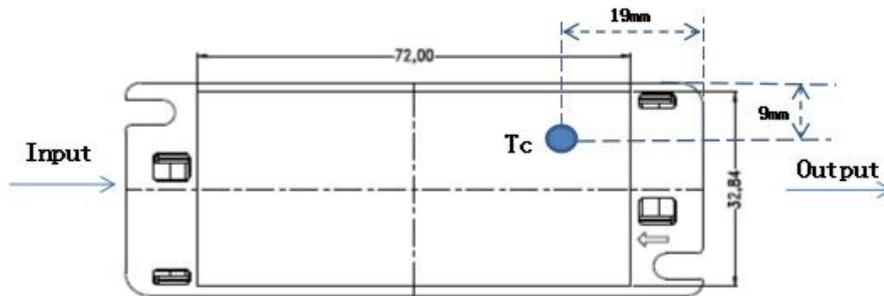
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Lifetime Curve

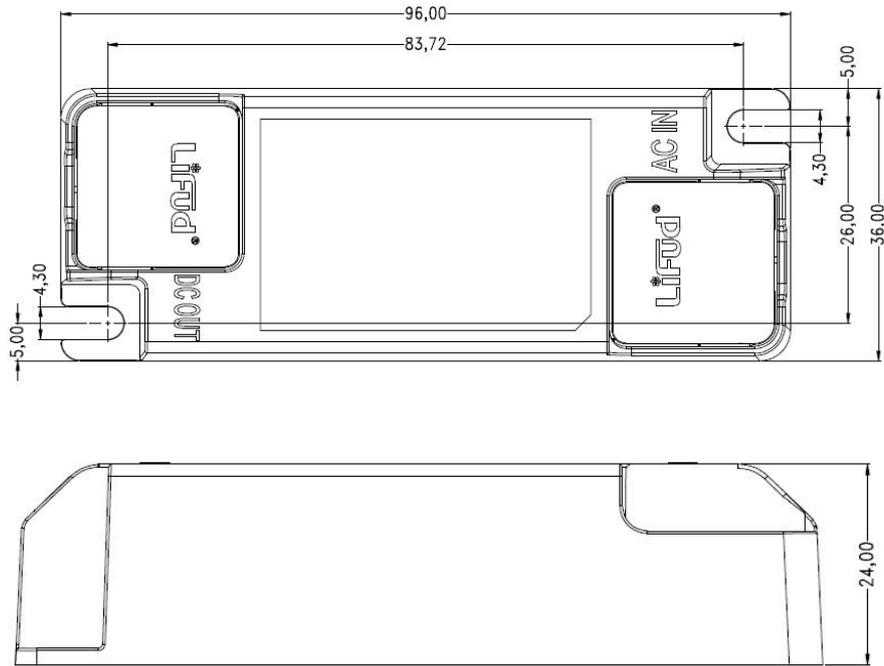
1. This curve illustrates the driver's lifetime data when its maximum casing temperature in an airtight space reaches 40°C, 50°C, 60°C, 70°C, 80°C and 85°C.



2. TC test spot at the bottom cover



Dimension (unit: mm, tolerance: +0.5mm)



Wiring Diagram

