

## Product Description



**Electrical type:** Isolated LED driver (suitable for Class II light fixtures)

**Category:** AC220-240Vac & flicker free effect

**Product features:** active PFC, high performance, high efficiency and low THD

**Applications:** indoor office lighting, commercial lighting, residential lighting and decorative lighting

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

**Certifications:** ENEC, CE, CB, RCM, CCC

## Technical Characteristics 1

Model		LF-GIF040YA(H) 1050H	LF-GIF040YA(H) 1000H	LF-GIF040YA(H) 0950H	LF-GIF040YA(H) 0900H	
Output	Output Voltage	33-40Vdc				
	Output Current	1050mA	1000mA	950mA	900mA	
	Ripple Voltage	≤2V				
	Current Tolerance	±5%				
	Start-up Time	230Vac ≤0.5s				
	Temperature Drift	±10%				
	Linear Adjustment Rate	±5%				
	Flicker Index	≤0.5%				
Input	Linear Adjustment Rate	±5%				
	Input Voltage	220-240Vac (voltage limit: 200-264Vac)				
	Input Frequency	47Hz-63Hz				
	Input Current	0.35A Max.				
	Power Factor	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.94/230Vac	
	THD	≤20%	≤20%	≤20%	≤20%	
	Efficiency	≥90%/230Vac	≥90%/230Vac	≥90%/230Vac	≥90%/230Vac	
	Inrush Current	<34A/200uS@230Vac				
	Load Quantity of what a Circuit Breaker can support	Model	B10	C10	B16	C16
		Quantity (pcs)	12	20	20	34
Standby Power Consumption	≤0.3W					
Protective Features	Open-Circuit	Open-circuit voltage ≤55Vdc				
	Short-Circuit	Hiccup mode (auto-recovery)				

Environment Conditions	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 & Norms	Certifications	ENEC, CE, CB, RCM, CCC
	Withstanding Voltage	I/P-O/P: 3.75kVac, ≤5mA 60s
	Insulation Resistance	I/P-O/P: 500Vdc, >100MΩ
	Surge Rating	Conforms to IEC61000-4-5 (L-N: 1KV )
	EMI	Conforms to EN55015 and EN61000-3-2
	EMS	Conforms to EN61000-4-2, 3, 4, 5, 6, 8, 11 and EN61547
Other Parameters	Package (Weight)	Carton size: 385*285*210mm (L*W*H); Weight: 0.1 Kg ±5%/pc, 8.72Kg ±5%/ctn; Quantity: 14 pcs/layer, 6 layers/ctn, 84 pcs/ctn
	IP Rating	IP20
	Warranty	5 years (Tc ≤82°C)
Remarks	<p>1. It is recommended that customer should install overvoltage and undervoltage protection devices and surge protection devices to ensure safety before connecting to electricity.</p> <p>2. 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.</p> <p>3. The test conditions of the circuit breaker configuration quantity is the same as that of the in-rush current test.</p> <p>4. Unless other remarks 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%, input voltage of 230Vac/50Hz and full load.</p>	

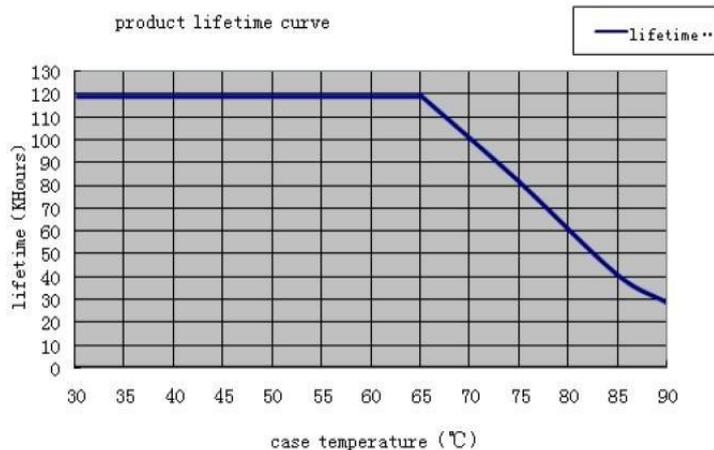
## Technical Characteristics 2

Model		LF-GIF040YA(H)0850H			LF-GIF040YA(H)0800H		
Output	Output Voltage	33-40Vdc					
	Output Current	850mA			800mA		
	Ripple Voltage	≤2V					
	Current Tolerance	±5%					
	Start-up Time	230Vac ≤0.5S					
	Temperature Drift	±10%					
	Linear Adjustment Rate	±5%					
	Percent Flicker	≤0.5%					
Input	Linear Adjustment Rate	±5%					
	Input Voltage	220-240Vac (voltage limit: 200-264Vac)					
	Input Frequency	47Hz-63Hz					
	Input Current	0.35A Max.					
	Power Factor	≥0.94/230Vac			≥0.93/230Vac		
	Total Harmonic Distortion	≤20%					
	Efficiency	≥90%/230Vac			≥90%/230Vac		
Input	Inrush Current	<34A/200uS@230Vac					
	Load Quantity of what a Circuit Breaker can support	Model	B10	C10	B16	C16	
		Quantity (pcs)	12	20	20	34	
	Standby Power Consumption	≤0.3W					
Protective Features	Open-Circuit	Open-circuit voltage ≤55Vdc					
	Short-Circuit	Hiccup mode (auto-recovery)					
Environment Conditions	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 & Norms	Certifications	ENEC, CE, CB, RCM, CCC					
	Withstand Voltage	I/P-O/P: 3.75kVac, ≤5mA 60s					
	Insulation Resistance	I/P-O/P: 500Vdc, >100MΩ					
	Surge Rating	Conforms to IEC61000-4-5 (L-N: 1KV )					
	EMI	Conforms to EN55015 and EN61000-3-2					
	EMS	Conforms to EN61000-4-2, 3, 4, 5, 6, 8, 11 and EN61547					

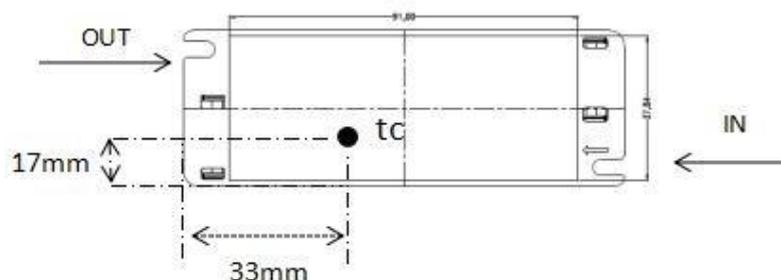
Other Parameters	Package (Weight)	Carton size: 385*285*210mm (L*W*H); Weight: 0.1 Kg $\pm$ 5%/pc, 8.72Kg $\pm$ 5%/ctn; Quantity: 14 pcs/layer, 6 layers/ctn, 84 pcs/ctn
	IP Rating	IP20
	Warranty	5 years ( $T_c \leq 82^\circ\text{C}$ )
Remarks	<p>1. It is recommended that customer should install overvoltage and undervoltage protection devices and surge protection devices to ensure safety before connecting to electricity.</p> <p>2. 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.</p> <p>3. The test conditions of the circuit breaker configuration quantity is the same as that of the in-rush current test.</p> <p>4. Unless other remarks stated, the parameters of the power factor, THD and efficiency are the test results under the ambient temperature of <math>25^\circ\text{C}</math> and humidity of 50%, input voltage of 230Vac/50Hz and full load.</p>	

## Lifetime Curve

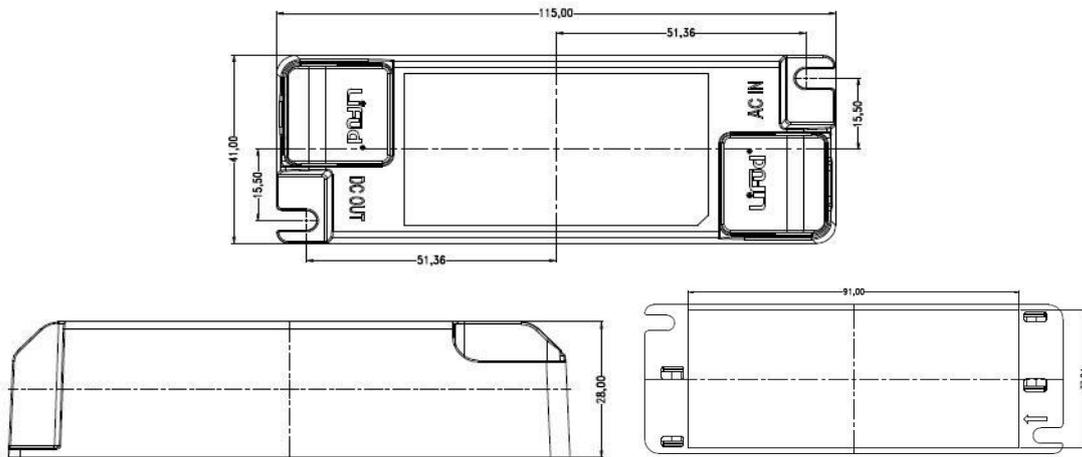
1. This curve illustrates the driver's lifetime data when its maximum casing temperature in an airtight space reaches  $40^\circ\text{C}$ ,  $50^\circ\text{C}$ ,  $60^\circ\text{C}$ ,  $70^\circ\text{C}$ ,  $80^\circ\text{C}$ ,  $85^\circ\text{C}$  and  $90^\circ\text{C}$ .



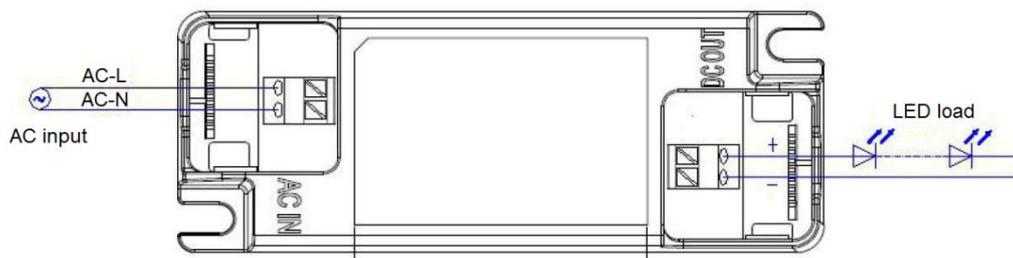
2. TC test point at the bottom casing of LED driver



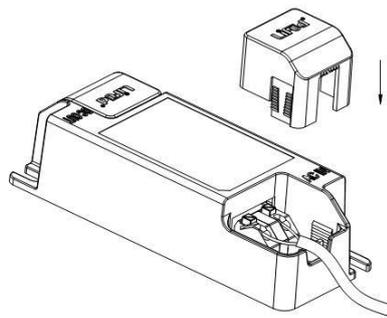
**Dimensions (unit: mm)**



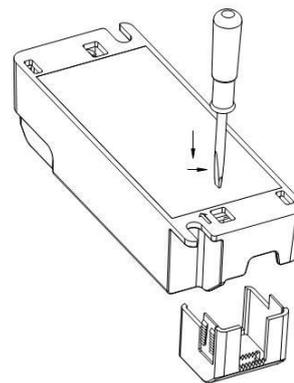
**Wiring Diagram**



**Assembly Diagrams**



Assembling the dust-proof end cap



Disassembling the dust-proof end cap