

# Specification

Customer: \_\_\_\_\_

Product Material No.: \_\_\_\_\_

Model No.: LF-GIC030YB

Version: V1.3

## Customer Approval

Checked by	Reviewed by	Approved by

## LIFUD Approval

Edited by	Reviewed by	Approved by
Liao Xinggao		Zhong Chunlin

## 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
0.1	original version	Liao Xinggao	2018-04-04
1.0	formal version	Liao Xinggao	2018-06-15
1.1	modified description and packaging	Liao Xinggao	2018-06-25
1.2	modified the diameter of the input wire and warranty	Liao Xinggao	2018-07-13
1.3	added certificates	Liao Xinggao	2018-08-20

## 1. Product Description



**Electrical type:** isolated LED driver for Class II LED luminaire

**Property:** compact size, multi-certificate, wide range of application

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

**Warranty:** 3 years (Please refer to the warranty condition.)

**IP rating:** IP20

**Certificate:** ENEC CE CB RCM CCC



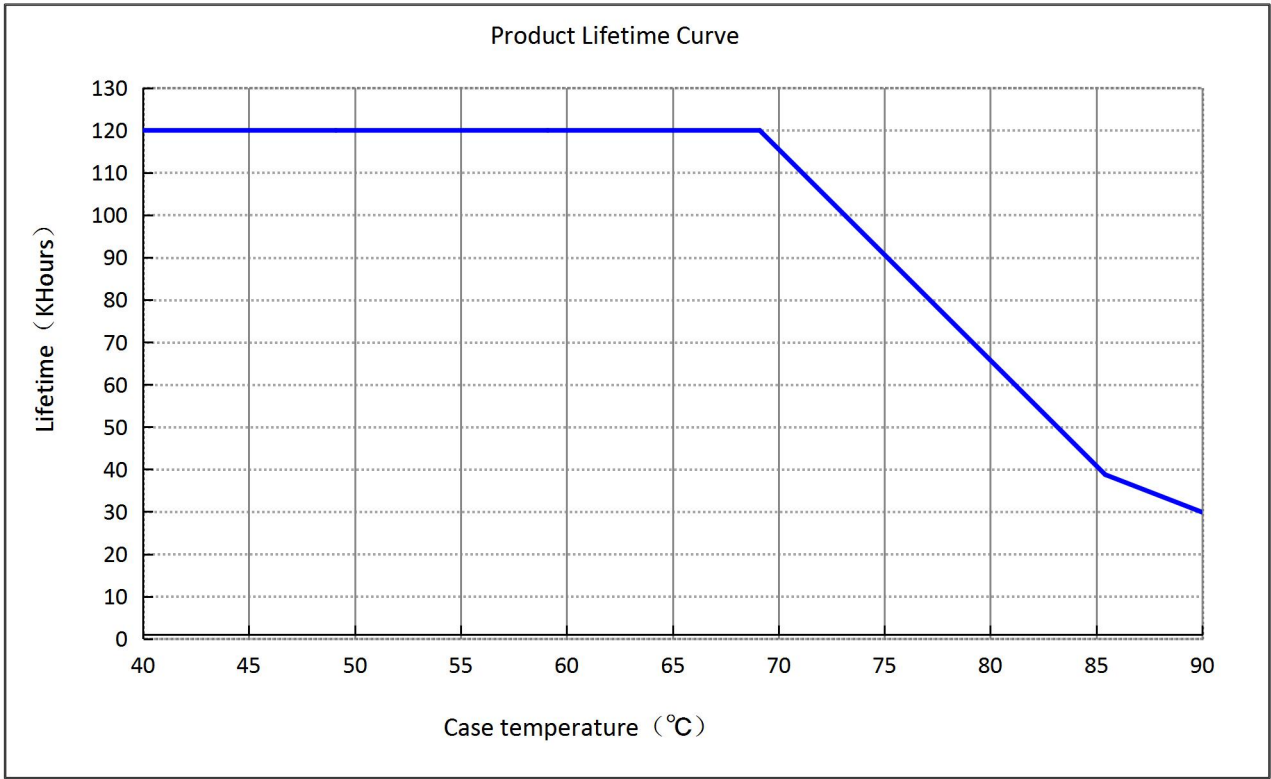
## 2. Technical Data

	Full Model Number	LF-GIC030YB0550H	LF-GIC030YB0600H	LF-GIC030YB0650H	LF-GIC030YB0700H	LF-GIC030YB0750H
<b>Output</b>	Output Voltage	25-42Vdc				
	Output Current	550mA	600mA	650mA	700mA	750mA
	Ripple Voltage	< 4.2V				
	Current Tolerance	±5%				
	Start-up Time	230Vac <0.5S				
	Temperature Drift	±10%				
	Line Regulation	±5%				
<b>Input</b>	Line Regulation	±5%				
	Rated Input Voltage	220-240Vac (Voltage Limit: 198-264Vac)				
	Frequency	47Hz-63Hz				
	Input Current	0.2A Max				
	Power Factor	≥0.9				

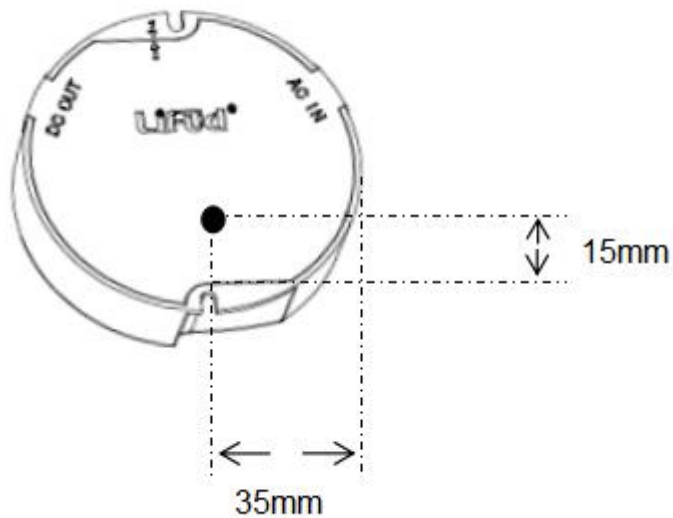
	THD	≤20%
	Efficiency	≥89%
	Inrush Current	<60A/350uS@230Vac
	Stand-by Power	<0.5W
<b>Protective Feature</b>	Open Circuit Protection	Open circuit voltage ≤55VDC
	Short Circuit Protection	Hiccup mode (auto-recovery)
<b>Environment Condition</b>	Working Temperature	-30°C - +55°C
	Working Humidity	20-90%RH (no condensation)
	Storage Temperature/Humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)
	Atmospheric Pressure	86-106KPa
<b>Safety &amp; Norm</b>	Certificate	ENEC CE CB RCM CCC
	Hi-Pot Test	I/P-O/P:3.75KVac, <5mA, 60S
	Insulation Resistance	I/P-O/P:500VDC, >100MΩ
	Surge Rating	Conform to IEC61000-4-5 (L-N:1KV)
	EMI	Conform to EN55015, EN61000-3-2
	EMS	Conform to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.
<b>Others</b>	Packing (Weight)	Carton size: 39 x 29 x 21 cm (L*W*H); Net weight: 98g±5%/pcs; 5.83KG±5%/ctn; 60 pcs/ctn
	IP Rating	IP20
	Warranty	3 years (TC ≤ 90°C) If the driver is to be assembled in a completely sealed light fixture, please do test the effect of the temperature in the led fixture on the lifetime of the driver. Lifud will only warrant according to its lifetime curve.
<b>Testing Equipment</b>	AC power source: CHROMA 6530, digital power meter: CHROMA 66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, electronic load: Maynuo M9712B, data collector: Agilent 34970A, constant temperature and humidity chamber: KSUN MQ-408-0Y0, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectrum analyzer: KH3935, insulation hi-pot tester: TH9201B, stroboscope (percent flicker tester) 60N-01, etc.	
<b>Testing Condition</b>	If there's no special statement, the parameters above, including the power factor, THD and efficiency, are the test results under the ambient temperature 25°C and humidity 50%, input 230Vac, and 90% load.	
<b>Additional Remark</b>	<ol style="list-style-type: none"> <li>1. It is recommended that customer should install protection devices for surge and for over &amp; under voltage to ensure safety before connecting to electricity.</li> <li>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.</li> </ol>	

### 3. Product Lifetime Curve

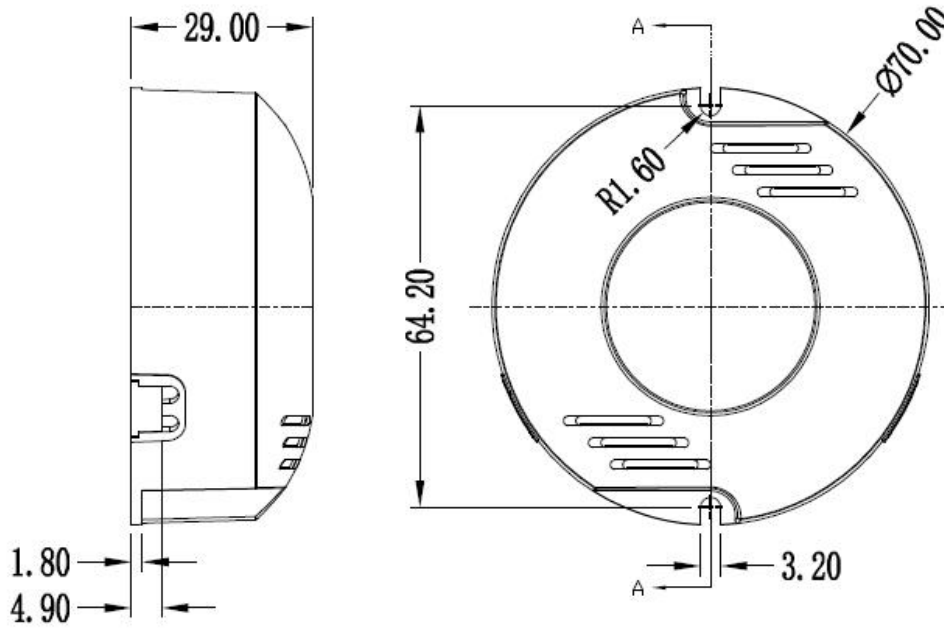
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C, 80°C and 90°C.



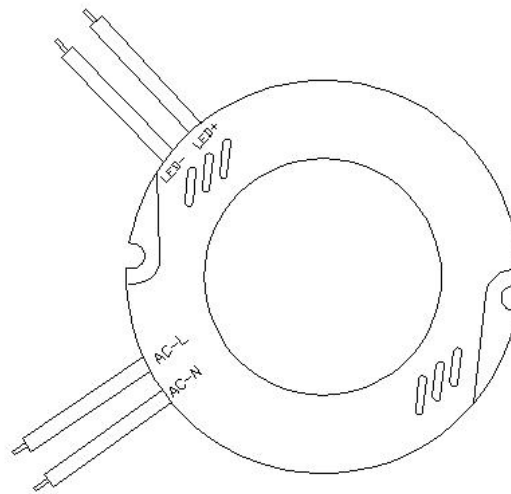
### 4. TC testing spot, on the bottom casing



**5. Dimension (Unit: mm; Tolerance: +0.5mm)**



**6. Wiring Diagram**



**Wiring instruction**

Function	Wire type	Number	Section area	Colour	Length
input L	Double-insulated teflon wire	18 AWG	0.75 mm <sup>2</sup>	brown	200 mm
input N	Double-insulated teflon wire	18 AWG	0.75 mm <sup>2</sup>	blue	200 mm
output +	Single-insulated teflon wire	20 AWG	0.5 mm <sup>2</sup>	red	200 mm
output -	Single-insulated teflon wire	20 AWG	0.5 mm <sup>2</sup>	black	200 mm