

## Product Description



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

**Category:** AC220-240V, flicker-free

**Product Feature:** adjustable output current via a dip switch, flicker-free, high PF, high efficiency, Ta 55°C

**Application:** built-in type; specifically designed for EU-standard LED track light

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

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



## Technical Data

Full Model Number		LF-GIF028YF			
Output	Output Voltage	30-42VDC			
	Output Current	550mA	600mA	650mA	700mA
	Ripple Voltage	≤1V			
	Current Tolerance	±5%			
	Start-up Time	Input 230VAC, full load at output ≤ 0.5 s			
	Temperature Drift	±10%			
	Line Regulation	±5%			
Input	Line Regulation	±5%			
	Input Voltage	220-240VAC (voltage limit: 200-264VAC)			
	Input Frequency	47-63Hz			
	Input Current	0.18A Max.			

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<b>Input</b>	Power Factor (full load)	≥0.95/200VAC
		≥0.94/230VAC
		≥0.90/264VAC
	THD	≤20% (220-240V)
	Efficiency (full load)	≥90.5%/200VAC
		≥90.5%/230VAC
		≥90.5%/264VAC
Inrush Current	<60A/350uS@230VAC	
Stand-by Power	≤0.5W 230Vac	
<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(six months under class I environment); 10-90%RH (no condensation)
	Atmospheric Pressure	86-106KPa
	Withstand Voltage	I/P-O/P: 3.75KV, <5mA, 60s
	Insulation Resistance	I/P-O/P: 500VDC, >100MΩ
	Surge Rating	Conform to IEC61000-4-5 (L-N: 1KV )
	Electromagnetic Interference	EN55015
	Electromagnetic Susceptibility	Conform to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
<b>Others</b>	Packaging (Weight)	Carton dimension: 385*285*210mm (L*W*H); 90g±5%/pc; 12.02kg±5%/ctn; Quantity: 119 (17*7) pcs/ctn
	Warranty Condition	5 years (Tc ≤ 77 °C)
<b>Testing Equipment</b>	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, spectrum analyzer: KH3935, hi-pot tester: TH9201B, stroboscope (percent flicker tester) 60N-01, etc.	
<b>Testing Condition</b>	Unless otherwise stated, the parameters of the power factor and efficiency are the test results under the ambient temperature of 25°C and humidity of 50%, AC input of 230V and 100% load.	
<b>Additional Remark</b>	<ol style="list-style-type: none"> <li>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>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.</li> <li>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>	

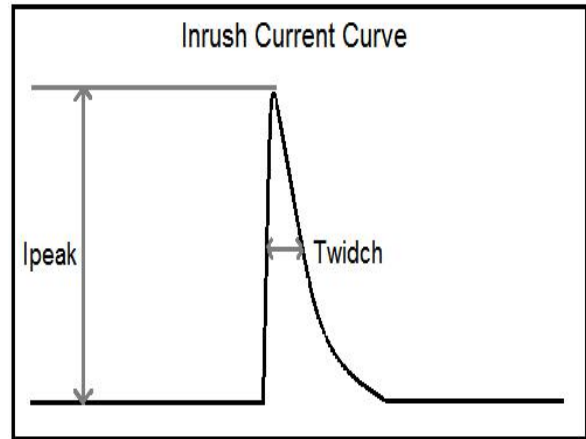
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### Circuit Breaker & Relevant Parameters

Name	Value	Remark
Surge peak current (I <sub>peak</sub> )	37A	Input voltage 230Vac
Surge half-peak time (T <sub>widch</sub> )	166μs	Input voltage 230Vac. Measure the time for I <sub>peak</sub> to drop to its half value.
Quantity of the same model driver that type-B 16A circuit breaker can configure.	22 pcs (maximum)	

Driver quantities are below if use another type of circuit breaker.

Type	rank	Qty of accommodated drivers	Relative conversion ratio
B	10A	13 pcs	63%
	13A	17 pcs	81%
	16A	22 pcs	100% (benchmark)
	20A	27 pcs	125%
	25A	34 pcs	156%
C	10A	22 pcs	104%
	13A	29 pcs	135%
	16A	37 pcs	170%
	20A	45 pcs	208%
	25A	57 pcs	260%

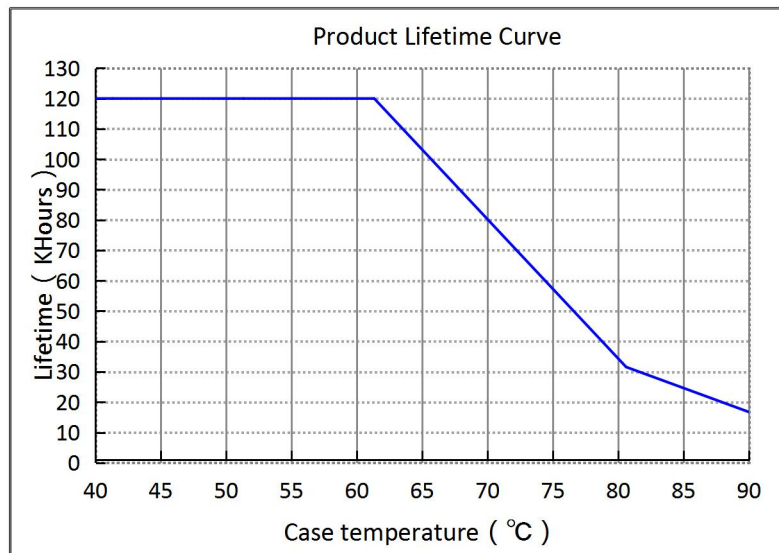


### DIP Switch Table

Ta	VO DC	Current	1	2	Output power
55°C	30V-42V	550mA	-	-	23.1W
		600mA	ON	-	25.2W
		650mA	-	ON	27.3W
		700mA	ON	ON	29.4W

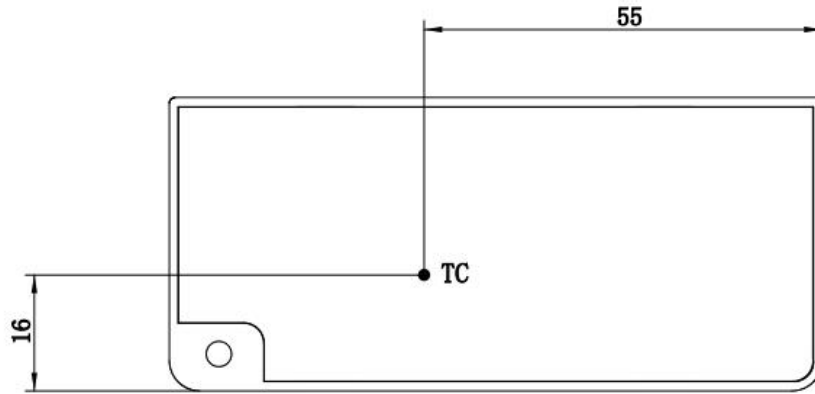
### Lifetime Curve

The curve below illustrates the driver's lifetime data when the its maximum case temperature in an airtight space reaches 40°C, 50°C, 60°C, 70°C, 80°C and 90°C.








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**TC Spot (on the bottom cover)**



**Label**

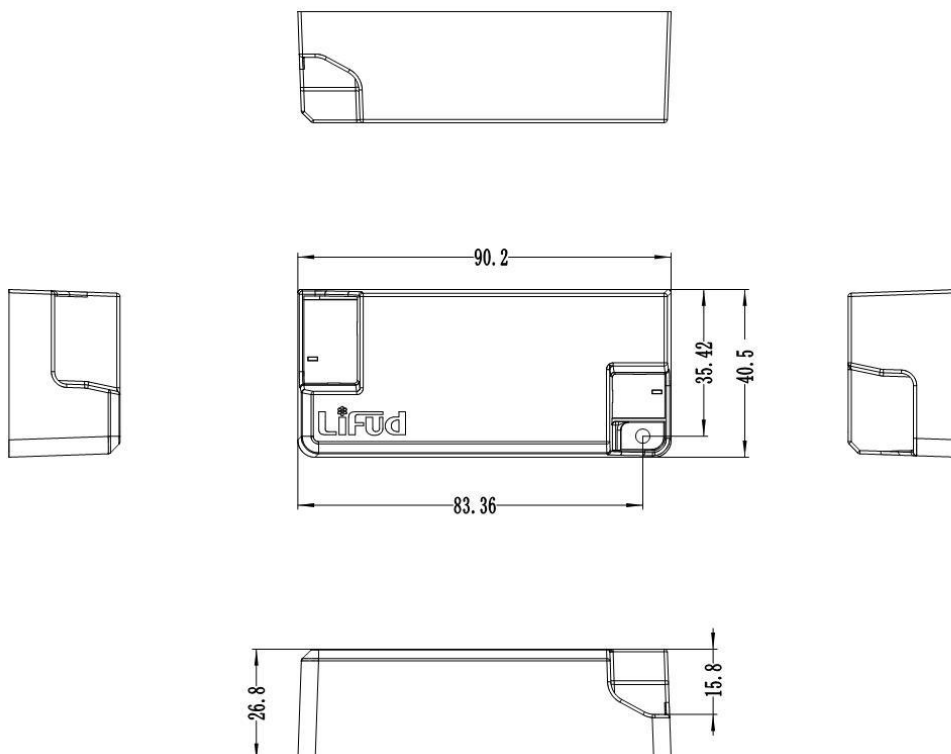
1	LED Driver(LED控制装置) Model:LF-GIF028YF Input:220-240V~ 50/60Hz Max.0.18A Output Voltage:30-42V ==P rated:29.4W(Max) U out:55V PF:≥0.9C ta:55°C For LED modules only tc:90°C www.lifud.com	Rated(CC)	1	2	Preparation for input and output 17.5mm Made in China (中国制造)
2		550mA	-	-	
OFF-ON	600mA	on	-		
Input	650mA	-	on		
AC-L	700mA	on	on	Output	LED+
AC-N				LED-	0.5-1.0
0.75-1.5					

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

L\*W\*H = 90\*40\*27 (mm)



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### Wiring Diagram

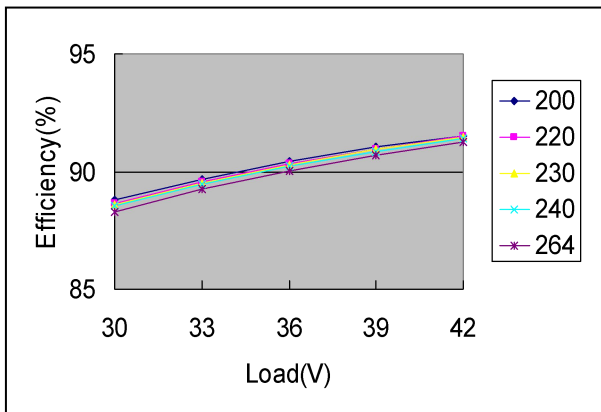


### Packaging Specification

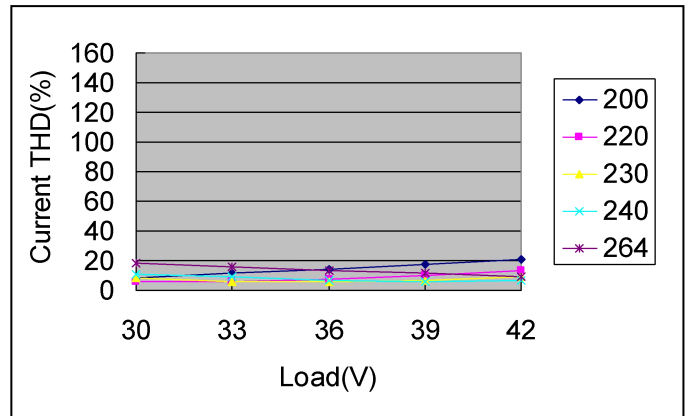
Model number	LF-GIF028YF
Dimension of a carton	385 * 285 * 210mm (L * W * H)
Quantity	17 pcs/layer; 7 layers/ctn; 119 pcs/ctn
Weight	90 g ± 5 g/pc; 12.02 Kg ± 0.6 Kg/ctn

### Product Feature Curve

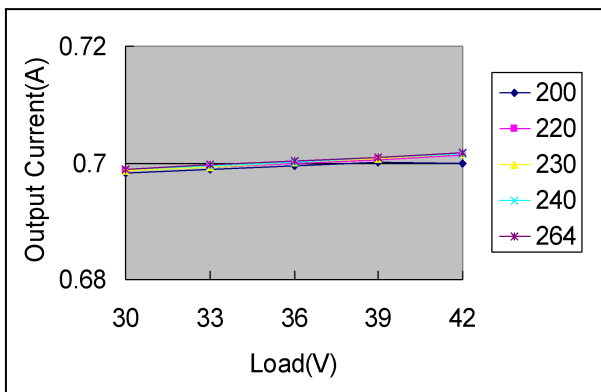
Efficiency curve



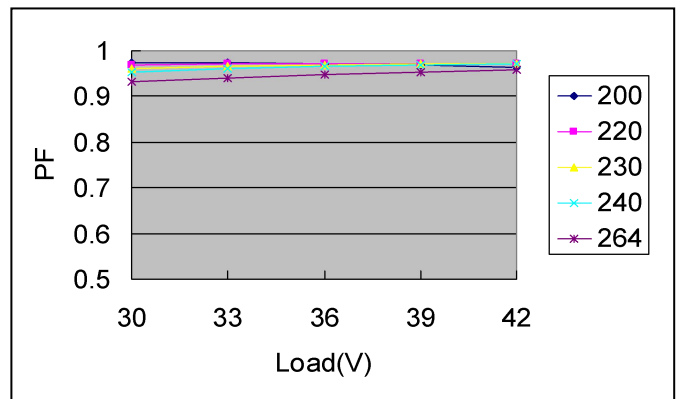
THD curve



Output current curve



PF curve



Remark: The final right of interpretation of contents of this data sheet belongs to Lifud Technology Co., Ltd.

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