

Product Description



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

Category: AC220-240V, flicker-free

Product Feature: high PF, high efficiency, low THD, flicker free, Ta 55°C

Application: built-in assembly; 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-GIF040YF	
Output	Output Voltage	30-42VDC	
	Output Current	950mA	1000mA
	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	0.25A Max.	

Model	LF-GIF040YF	Series	EU-Standard, Flicker-Free, Built-In Assembly, for LED Track Light
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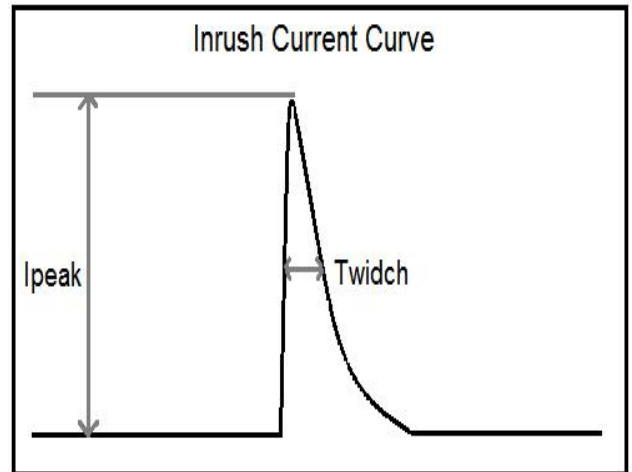
Input	Power Factor (full load)	≥0.95/200VAC
		≥0.94/230VAC
		≥0.90/264VAC
	THD	≤20% (220-240VAC)
	Efficiency (full load)	≥90.5%/200VAC
		≥90.5%/230VAC
		≥90.5%/264VAC
	Inrush Current	<60A/350uS@230VAC
	Stand-by Power	≤0.5W 230VAC
Protective Feature	Open Circuit Protection	Open circuit voltage ≤ 55VDC
	Short Circuit Protection	Hiccup mode (auto-recovery)
Environment Condition	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
Others	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 ≤ 85 °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, spectrum analyzer: KH3935, hi-pot tester: TH9201B, stroboscope (percent flicker tester) 60N-01, etc.	
Testing Condition	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.	
Additional Remark	<ol style="list-style-type: none"> 1. It is recommended that customer should install protection devices for surge and for over & under voltage 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. 	

Circuit Breaker & Relevant Parameters

Name	Value	Remark
Surge peak current (I _{peak})	35.2A	Input voltage 230Vac
Surge half-peak time (T _{widch})	177μs	Input voltage 230Vac. Measure the time for I _{peak} to drop to its half value.
Quantity of the same model driver that type-B 16A circuit breaker can configure.	23 pcs (maximum)	

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

type	rank	qty of accommodated drivers	relative conversion ratio
B	10A	14 pcs	63%
	13A	18 pcs	81%
	16A	23 pcs	100% (benchmark)
	20A	28 pcs	125%
	25A	35 pcs	156%
C	10A	23 pcs	104%
	13A	31 pcs	135%
	16A	39 pcs	170%
	20A	47 pcs	208%
	25A	59 pcs	260%

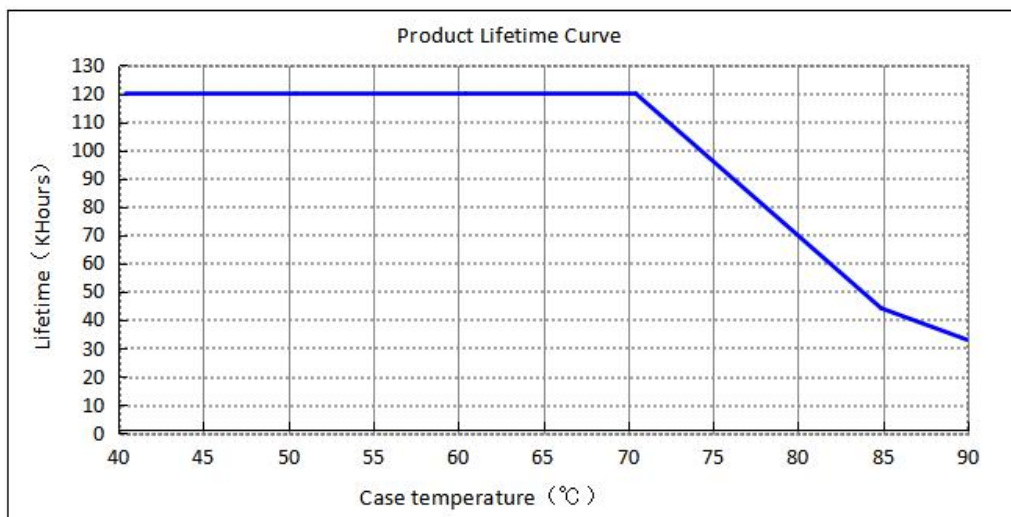


DIP Switch Table

T _a	VO DC	Current	1	2	Output power
55℃	30V-42V	950mA	-		39.9W
		1000mA	ON		42W

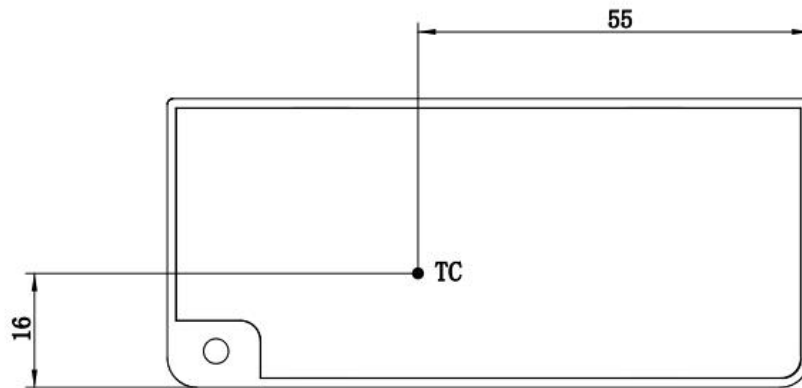
Lifetime Curve

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

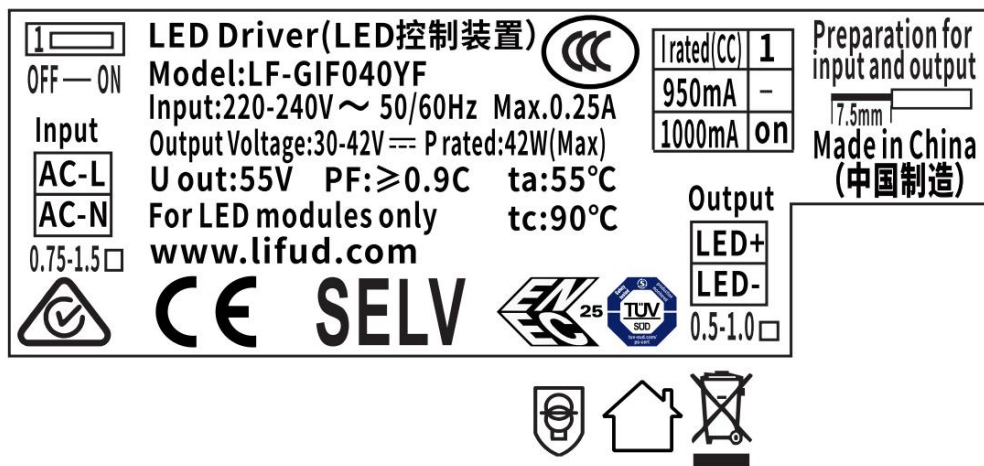


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TC Spot (on the bottom cover)

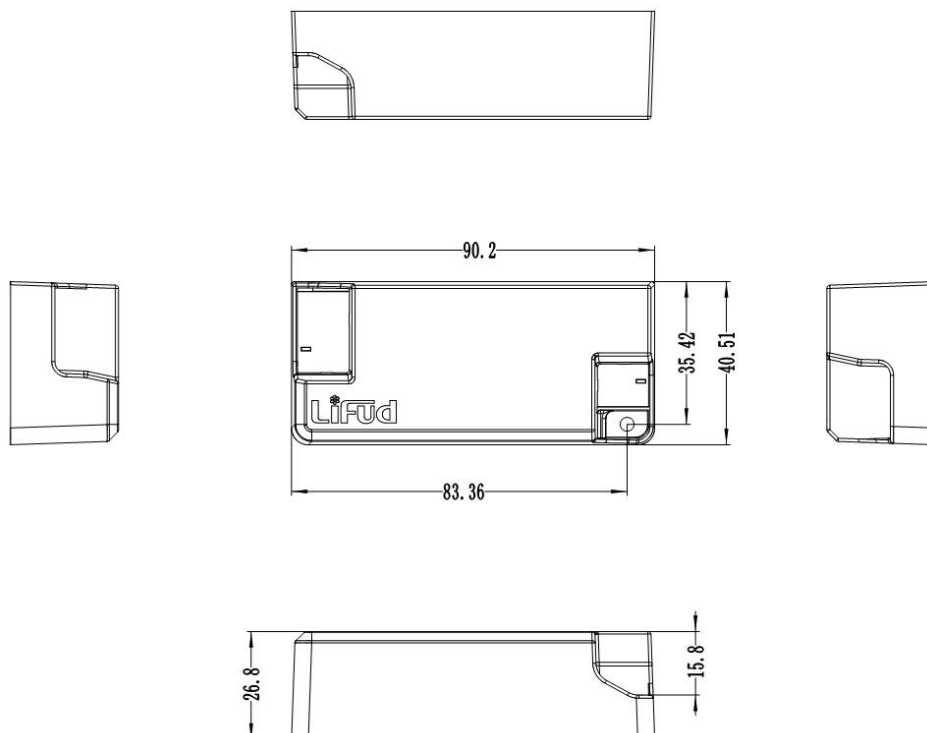


Label



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

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



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Wiring Diagram

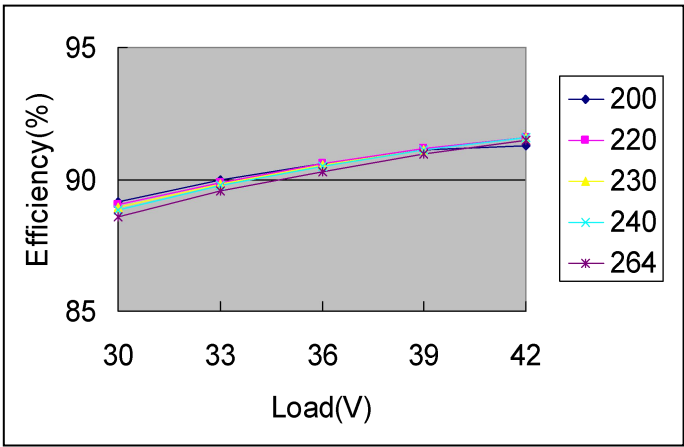


Packaging Specification

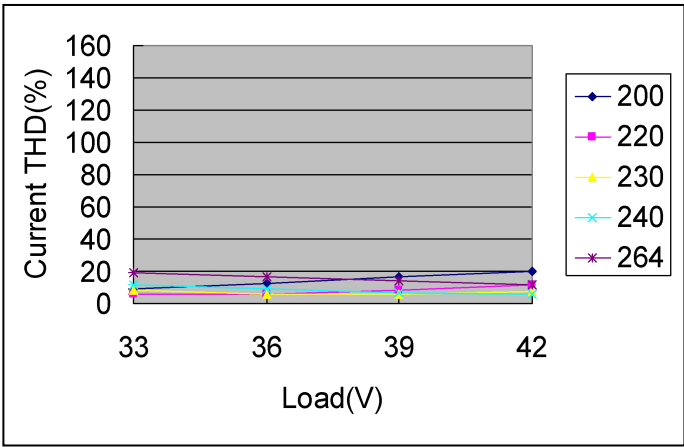
Model number	LF-GIF040YF
Dimension of a carton	385 * 285 * 210mm (L * W * H)
Quantity	17 pcs/layer; 7 layers/ctn; 119 pcs/ctn
Weight	90 g ± 5 g/pc; 12.02 Kg ± 0.6 Kg/ctn

Product Feature Curve

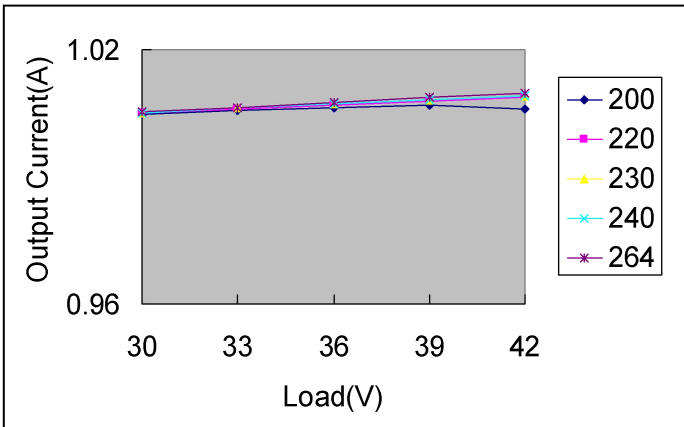
Efficiency curve



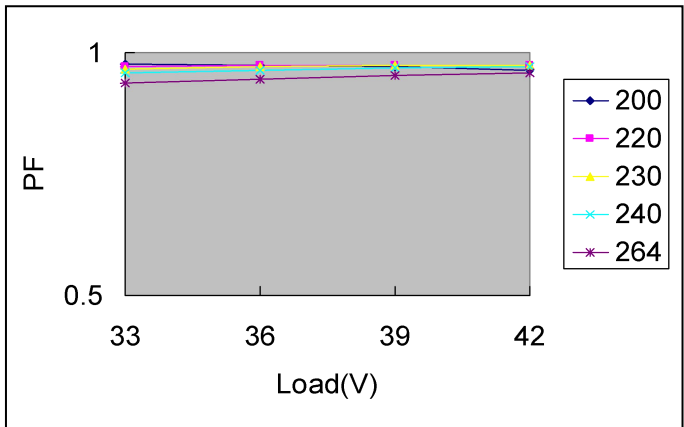
THD curve



Output current curve



PF curve



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