Features

- High efficiency up to 90%
- THD <15%
- Output current adjustable via potentiometer
- 0-10V/PWM/Rx dimmable or non-dimmable version selectable
- Surge protection: L-N: 6kV, L/N-GND: 10kV
- All-round protections: over temperature protection, over voltage protection and short circuit protection
- IP67

Applications

· Street light · tunnel light

Descriptions

LF-GOE100YF/YE(E) is a 100W street light LED driver. It has 2 versions: 3-in-1 dimming version and non-dimmable version. There is a potentiometer on the side of LED driver that is used to adjust the output current (power). It is suitable for street light, tunnel light, etc.

Product Model

LF - GOE 100 YF / YE (E)

- E: EU-standard version
- YE: non-dimmable
- YF: 0-10V/PWM/Rx dimmable
- 100: rated power: 100W
- G: isolated design; OE: outdoor LED driver

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■ Electrical Characteristics

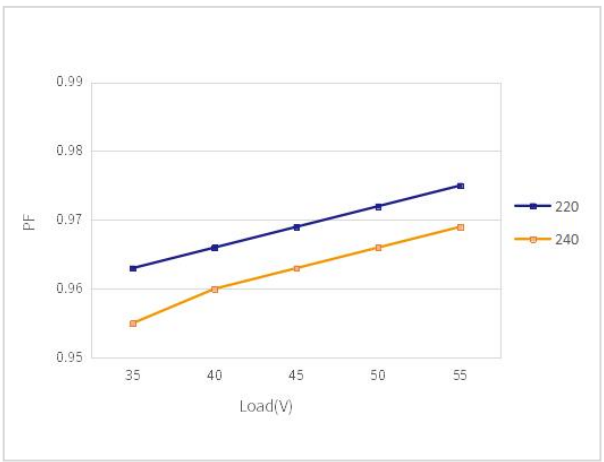
Model		LF-GOE100YF(E)	LF-GOE100YE(E)
Output	Output Current	Adjustable via potentiometer	
		1600-2800mA (the potentiometer is beside the mark of “IO ADJ”)	
	Output Voltage	30-54Vdc (LED)	
		27-54Vdc (LED) for CCC certified only	
	Output Power	100W max. @220~240Vac	
	Linear Adjustment Rate	±5% @full load	
	Load Adjustment Rate	±8% @full load	
	Start-up Time	<1S @230Vac	
	Temperature Drift	±5% @Ta -40~+60℃	
Input	Input Voltage	220-240Vac (voltage limit: 180-264Vac); 311-339Vdc	
	Input Current	1.1A max.	
	PF	≥0.95/230Vac @54Vdc 1850mA	
	THD	≤15%/230Vac @54Vdc 1850mA	
	Efficiency	≥90%/230Vac @54Vdc 1850mA	
	In-rush Current	<80A/700uS @230Vac	
Protections	Surge	L-N: 6kV (2Ω), L/N-PE: 10kV (12Ω)	
	Open Circuit	Open-circuit voltage ≤60Vdc	
	Short Circuit	Hiccup mode (auto-recovery)	
Environment Descriptions	Operating Temperature	-40℃~+60℃	
	Operating Humidity	0~95%RH (no condensation)	
	Storage Temperature/ Humidity	-40℃~+80℃ (6 months in Class I environment); 0-95%RH (without condensation)	
	Atmospheric Pressure	86-106kPa	
Safety and EMC	Certifications	ENEC, CE, CB, RCM, SAA, CCC	
	Withstanding Voltage	I/P-O/P: 3.75kVac, <5mA 60S; I/P-FG: 1.6kVac, <5mA 60S; O/P-FG: 0.5kVac, <5mA 60S	
	Safety Standards	EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62384: 2016 IEC 61347-1: 2015, IE61347-2-3: 2014, IEC 61347-2-13: 2014 GB19510.1-2009, GB19510.14-2009	
	Insulation Resistance	I/P-O/P: 500Vdc, >100MΩ	
	EMI	EN55015, CLASSB	
	EMS	Complies with IEC61000-4-2, 3, 4, 5 (DM 6kV, CM 10kV), 6, 8, 11, 12; IEC61547	

■ Electrical Characteristics

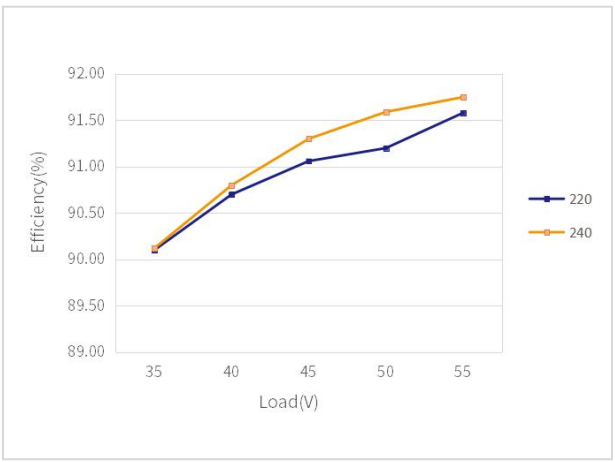
Other Parameters	IP Rating	IP67
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc ≤75℃)
Additional Remarks	1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished. 3. It is suggested that user use slotted screwdriver or Philips to adjust the output current of LED driver in case that the potentiometer is damaged. (the screwdriver should have good insulation at the head, body and handle, and the screwdriver with a 2mm head is well-advised as well. What's more, please pay attention that the intensity of torque not exceed 0.5KN.m). 4. When adjusting the output current of LED driver, please pay attention that the total output power not exceed the maximum rated output power. ⚠ 5. When using the version complying with ErP2019, please pay attention that only the dimmer or the dimming system that cannot be dimmed to off be available so as to ensure that the LED driver does not enter the standby mode.	

■ Product Characteristic Curves

PF Curve

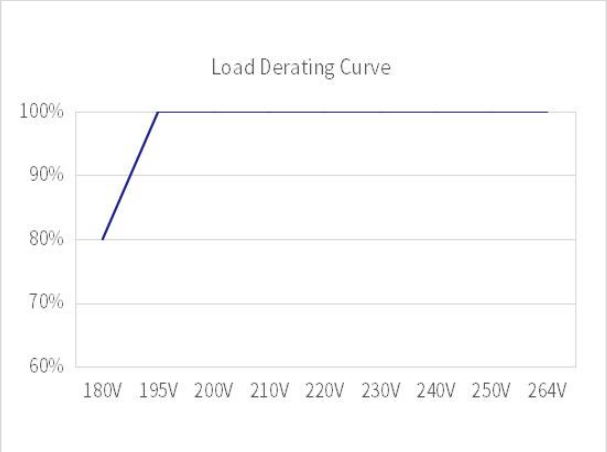


Efficiency Curve

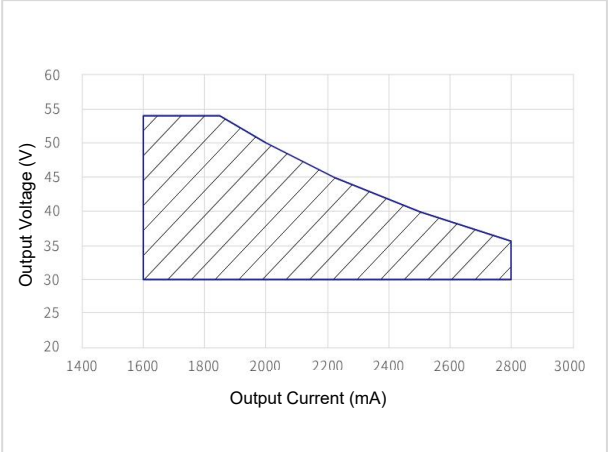


■ Product Characteristic Curves

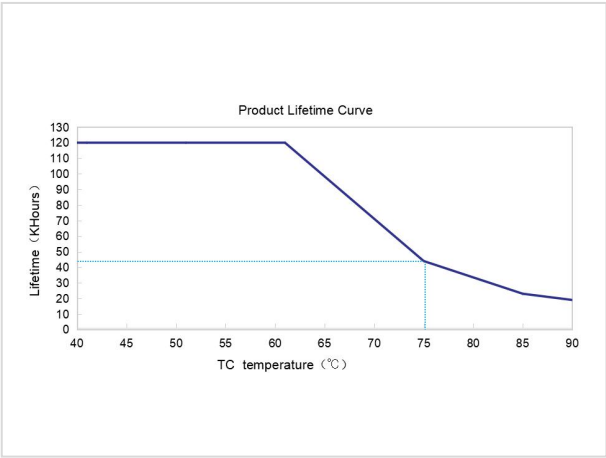
Load Derating Curve



Power Curve



Lifetime Curve



■ Dimming Operation Instructions

Output current adjustable via built-in potentiometer

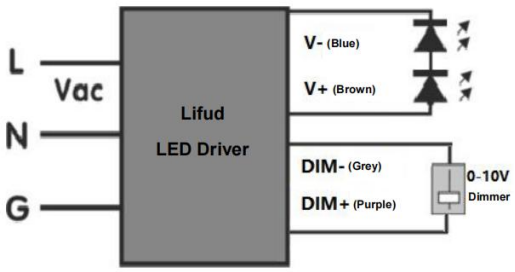
Parameter	MIN	TYP	MAX	Remark
Output Current	1600mA	-	2800mA	The total output power should **NOT** exceed 100W

■ Dimming Operation Instructions

0-10V Dimming Operation

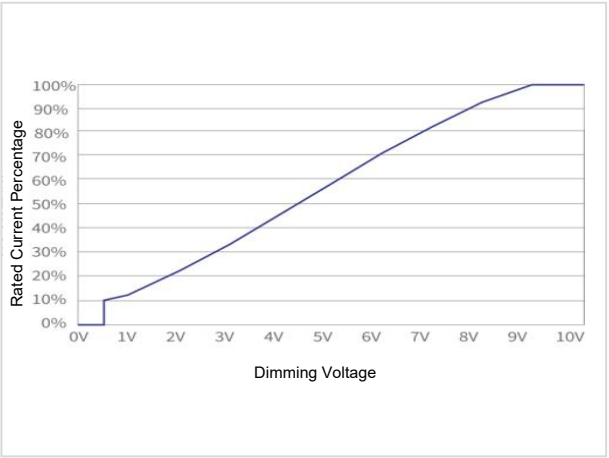
- Connect 0-10V signal to DIM terminal.
- In 0-10V dimming mode, when the input voltage is 0.3V±0.1, the light turns off; when it's 0.5V±0.1, the light turns on.
- Minimum dimming depth of 0.5-10V: 10%
- DIM+/- (without signal connected): 100% rated current output

Wiring Diagram of 0-10V Dimming



This diagram is only for YF version. YE version has no DIM+ or DIM-.

Dimming Curve

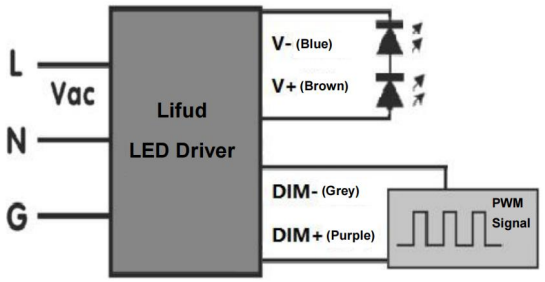


■ Dimming Operation Instructions

PWM Dimming Operation

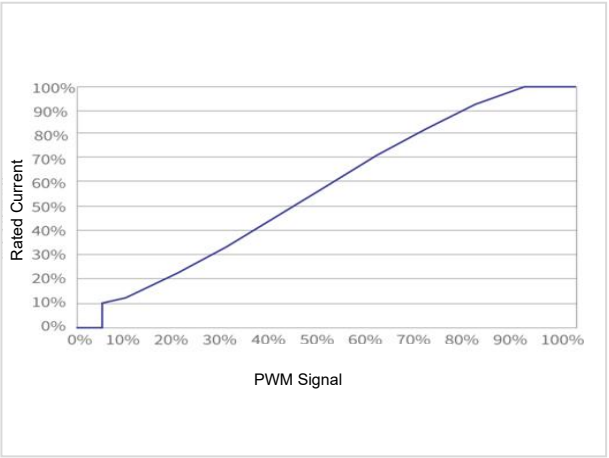
- Connect PWM signal to DIM terminal.
- Dimming depth: 10% (typical value)
- Signal: 400-3000(Hz), amplitude: 10(V)
- DIM+/- (without signal connected): 100% rated current output

Wiring Diagram of PWM Dimming



This diagram is only for YF version. YE version has no DIM+ or DIM-.

Dimming Curve

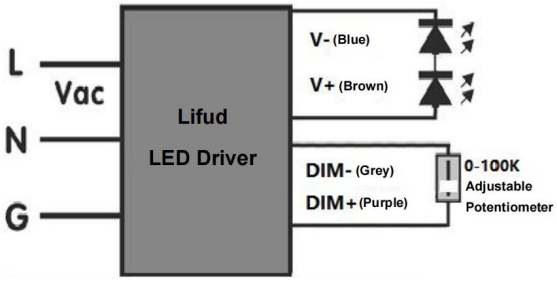


■ Dimming Operation Instructions

Rx Dimming Operation

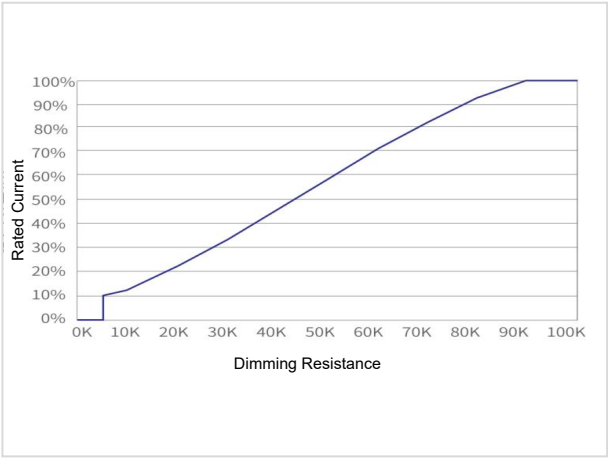
- Connect Rx signal to DIM terminal.
- Range: 0-100KΩ
- DIM+/- (without signal connected): 100% rated current output

Wiring Diagram of Rx Dimming



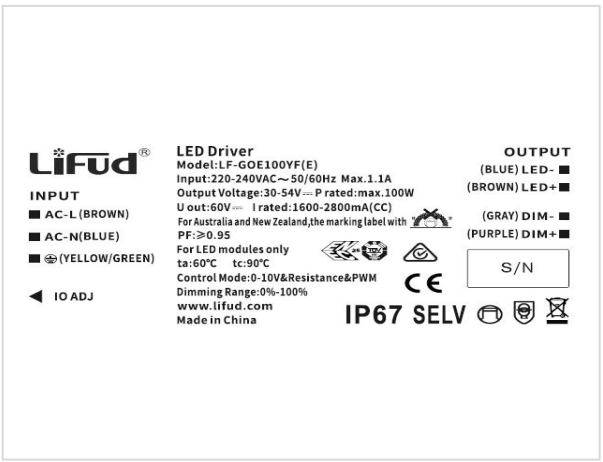
This diagram is only for YF version. YE version has no DIM+ or DIM-.

Dimming Curve



■ Laser Labels

LF-GOE100YF(E)



LF-GOE100YE(E)

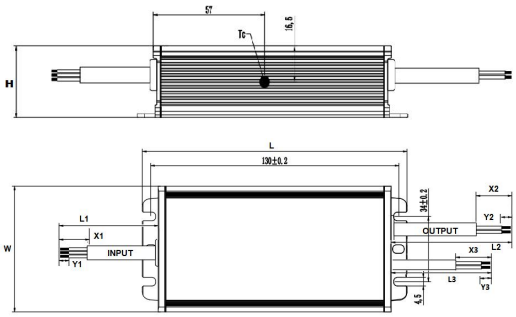
■ Structure & Dimensions (unit: mm; tolerance: ±0.5mm)

Wire Specifications

Type	Input Wire	Output Wire	Dimming Wire & AUX Output Wire
YF	3*1.0mm² Φ7.2±1mm	2*1.0mm² Φ6.8±1mm	2*22AWG Φ4.5±1mm
YE	3*1.0mm² Φ7.2±1mm	2*1.0mm² Φ6.8±1mm	/
Color	AC-L Brown; AC-N Blue; PG Yellow & green	LED+ Brown; LED- Blue	DIM+ Purple; DIM- Grey
Length	300±10mm (L1)	220±8mm (L2)	200±8mm (L3)
Tinned	40±4mm (X1)	36±4mm (X2)	40±4mm (X3)
Peeled	10±1.5mm (Y1)	6±1.5mm (Y2)	10±1.5mm (Y3)

Casing Dimensions

Description	Symbol	Unit (mm)
Length	L	138.6
Width	W	65.5
Height	H	32.8



■ Packaging Specifications

Model	LF-GOE100YF/YE(E)
Carton Size	400*310*170 mm (L*W*H)
Quantity	8 pcs/layer; 2 layers/ctn; 16 pcs/ctn
Weight	0.53±0.1 kg/pc; 9±1.6 kg/ctn

■ Transportation and Storage

1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

2. Storage

- The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.

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