

Product Description

LF-GOE200YE/YF5500-56 series is a 200W constant current LED driver, specifically designed for street lights, tunnel lights, horticulture lighting and landscape lighting projects and suitable for various indoor and outdoor applications. Rated voltage: 100-277Vac (limit: 90-305Vac); output voltage: 27-56Vdc; output current: 3000-5500mA. It has features of high surge protection, high waterproof protection, low standby power consumption and low THD, and can be dimmed to off. It is also equipped with all-round protections: surge protection, over-voltage protection, short circuit protection, open circuit protection and over temperature protection, which greatly improves the product stability.

Feature

- Output current adjustable via the potentiometer
- Two-stage flicker free design
- Three-in-one dimming (YF): 0-10V, PWM and Rx
- All-round protection: over temperature protection, over-voltage protection, short circuit protection, open circuit protection and IP67
- Surge protection: standard version and enhanced version optional
- 5yrs warranty (Please refer to the warranty description.)

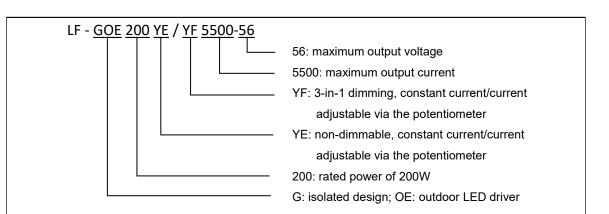
Application

- -Street light
- -Tunnel light
- -Horticulture lighting
- -Landscape lighting





Product Naming





Electrical Characteristic

Model		LF-GOE200YE5500-56	LF-GOE200YF5500-56	
	Output Voltage	27-56Vdc		
Output -	Output Current	3000mA - 5500mA (adjustable via the potentiometer)		
	Output Power	200W max @100~277Vac		
	Default Setting	3600mA		
	Ripple Current	Typical: 5%; Maximum: 10%		
	Current Tolerance	±5%		
	Temperature Drift	±5%		
	Start-up Time	<1S@120Vac; <0.5S@230Vac		
	Input Voltage	100-277Vac (limit: 90-305Vac)		
	DC Input Voltage	141-391Vdc (limit: 127-431Vdc)		
	Input Frequency	47Hz-63Hz		
	Input Current	2.4A Max@100Vac		
Input	Power Factor	≥0.98@120Vac (full load); ≥0.95@230Vac (full load)		
	THD	≤10%		
	Efficiency	≥93.5% (46V full load)		
	In-rush Current	≤100A@350uS		
	Leakage Current	≤0.7mA		
	Surge Protection	☑ Standard version: L-N:6KV (2Ω), L/N-GND:10KV (12Ω)		
-		☐ Enhanced version: L-N:6KV (2Ω), L/N	-GND:10KV (2Ω)	
	Open Circuit Protection	≤63V		
Protection Characteristics	Over Temperature	YF: if the operating temperature exceed	s the specified temperature,	
	Protection	the current will decrease; the current will fault condition is removed.	Il recover automatically after	
		YE: if the operating temperature exceed the driver will not work; the driver will	,	
		recover after fault condition is removed.	restait and the current will	
	Short Circuit Protection	Hiccup mode (auto-recovery)		



	Operating Temperature	-40°C~+60°C (200-277Vac); -40°C~+50°C (100-200Vac)	
	Operating Humidity	20-90%RH (no condensation)	
Environment Description	Storage Temperature & Humidity	-40℃~+ 80℃ (six months under class I environment); 10-90%RH (no condensation)	
	Atmospheric Pressure	86~106KPa	
	Certification	TUV-ENEC, CCC, CE, RCM, UL (Class P), FCC, SAA, CB	
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S; I/P-FG: 1.5kV 5mA 60S; O/P-FG: 0.5kV, 5mA 60S	
	Insulation Resistance	I/P-O/P: >100MΩ@500VDC	
Safety and Electromagnetic Compatibility	Safety Standard	ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384: 2016/A1: 2009 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 CB: IEC 61347-1:2015, IE61347-2-3:2014, IEC 61347-2-13:2014/AMD1:2016 RCM: AS 61347.2-13:2018 CCC: GB19510.1-2009, GB19510.14-2009 UL: UL8750, CSA 250.13	
	ЕМІ	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 CCC: GB/T17743, GB17625.1, GB17625.2 FCC: part 15B	
	EMS	CE-EMC/RCM: EN61000-4-2,3,4,5,6,11 CCC: GB/T17626.2,3,4,5,6,11	
	IP Rating	IP67	
Oth a	RoHS	RoHS 2.0 (EU) 2015/863	
Others	Warranty	5 years (Tc: ≤86°C)	
	MTBF	1	



1. It is recommended that customer should install protection devices for surge, for over voltage and for undervoltage to ensure safety before connecting to electricity.

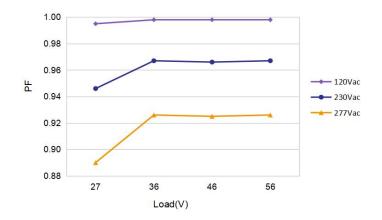
2. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer re-confirms the EMC of the whole LED light fixture.

Remarks

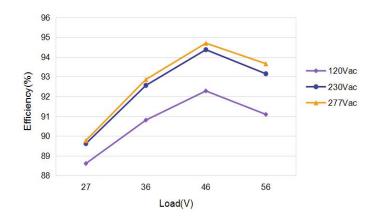
- 3. It's suggested that the user should use a slotted screwdriver or a Philips screwdriver to adjust the output current in case the potentiometer is damaged. The screwdriver with a 2mm slot head is recommended. Torque is NO higher than 0.5NM. Make sure the insulation of the screwdriver is good enough.
- 4. When adjust the output current, please make sure the total output power of the light fixture NOT exceed the maximum rated output power of the driver.
- 5. Unless otherwise stated, the parameters above are test results under these conditions ambient temperature of 25°C, humidity of 50%, 100% load and input voltage of 230Vac.
- 6. In compliance with ERP2019, for using the dimmer or system that cannot be dimmed to off to ensure that the LED driver does not enter standby mode.

Product Characteristic Curve

PF Curve

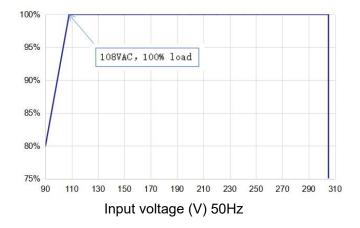


Efficiency Curve

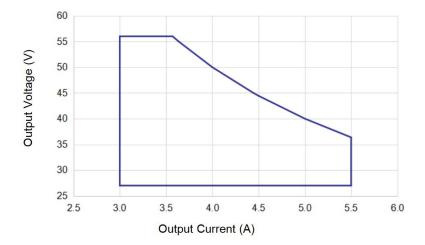




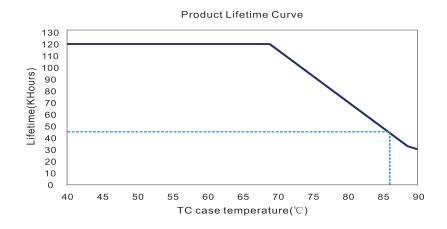
Load Derating Curve



Power Curve



Lifetime Curve



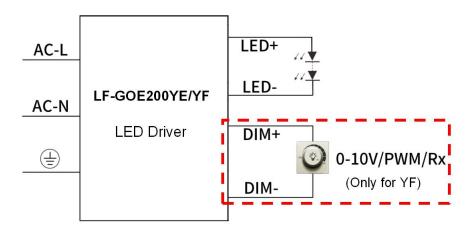


Instruction of Dimming

• Dim via a built-in potentiometer (adjust the output current)

Feature	Minimum	Typical	Maximum	Remark
Output current range	3000mA	-	5500mA	The total output power of the light fixture should NOT exceed 200W (Vout * lout = Pout)

Dimming Diagram



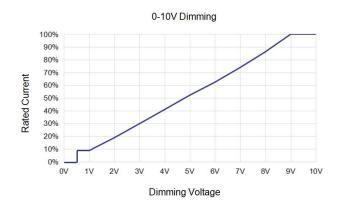
Symbol	EU & US
AC-L	BROWN
AC-N	BLUE
(a)	YELLOW&GREEN
LED+	BROWN
LED-	BLUE
DIM+	PURPLE
DIM-	GRAY

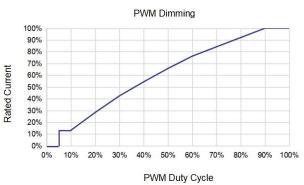
- Operations of 0-10V, PWM, Rx Dimming
 - Connect the 0-10V, PWM or Rx signal to the DIM terminals.
 - In 0-10V dimming mode, when the input voltage is $0.8V\pm0.1V$, the light will be turned off. When it's $1V\pm0.1V$, the light will be turned on.
 - The dimming depth of 0-10V dimming is 10%.
 - The dimming depth of PMW dimming is 10%.
 - PWM signal range: 400-3000 (Hz); amplitude: 9-10 (V)
 - Rx range: 0-100KΩ

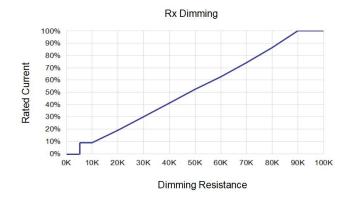
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- DIM+/- (no signal connection): 100% rated output current

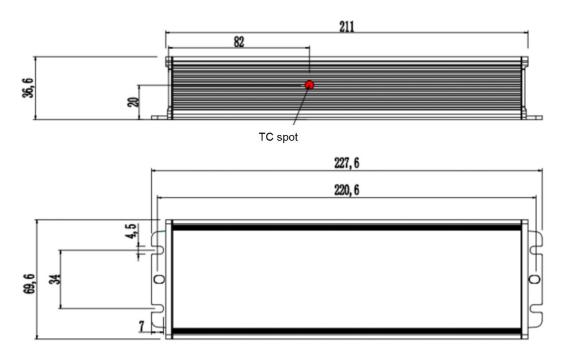








Structure & Dimensions (Unit: mm Tolerance: ±5mm)





Wire Specification	Input Wire	Output Wire	Dimming Wire
EU&US	3*17AWG (1.04mm²)Ø8.2±1mm	2*17AWG (1.04mm²)Ø7.7±1mm	YF: 2*22AWG Ø4.5±1mm
Color	AC-L brown; AC-N blue; GND yellow & green	LED+ brown; LED- blue	DIM+ purple; DIM- gray
Length	300±10mm	220±10mm	200±10mm
Peeled	40±5mm	36±5mm	60±5mm
Tinned	10±1mm	6±1mm	10±1mm

Packaging Specification

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Model	LF-GOE200YE/YF5500-56
Carton Size	464 x 390 x 184mm (L×W×H)
Quantity	8 pcs/layer; 2 layers/ctn; 16 pcs/ctn
Weight	1.02 kg±0.1/pc; 17.1±1.6 kg/ctn



Transportation & Storage

Transportation

- Suitable transportation means: vehicles, boats and aircraft.
- During transportation, there should be awnings for rain protection and sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

■ Storage

 Storage in accordance with the provisions of Class I environment. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- Please use this product according to its specifications otherwise there may be malfunction.
- Use light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

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