

Features

- High efficiency up to 93%
- THD <15%
- Adjustable output voltage via a potentiometer
- Surge protections: L-N: 6kV; L/N-PE 8kV
- Flicker free
- All-round protections: over temperature protection, over voltage protection and short circuit protection
- IP67



Applications

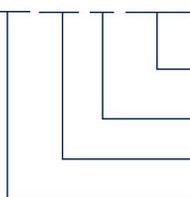
Outdoor lighting · landscape lighting

Descriptions

LF-GOE150YV024A is a 150W constant voltage LED driver with linear casing design. It has high PF and low THD and can be applied in flood light, etc. There is a potentiometer used for adjusting the output voltage (power) at the bottom of LED driver to meet diverse needs.

Product Model

LF - GOE 150 YV 024A



- 024A: constant output voltage: 24V
- YV: constant voltage LED driver series
- 150: rated power: 150W
- G: isolated design; OE: outdoor LED driver series

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■ Electrical Characteristics

Model	LF-GOE150YV024A			
Output	Output Current	6.25A max.@200-277Vac; 4.17A max.@100-277Vac		
	Output Voltage	22.08~25.92Vdc (adjustable via the potentiometer)		
	Output Power	150W max.@200-277Vac; 100W max.@100-277Vac		
	Faculty Default	24Vdc		
	Flicker	≤0.5%@50Hz or 60Hz		
	Ripple Voltage	≤10%@50Hz		
	Voltage Tolerance	±2.5%		
	Startup Time	<1S@120Vac; <0.5S@230Vac		
	Temperature Drift	±10%@25°C~60°C		
Input	Input Voltage	100-277Vac (voltage limit: 90-305Vac)		
	DC Input Voltage	141-391Vdc (voltage limit:127-431Vdc)		
	Input Frequency	47Hz-63Hz		
	Input Current	1.35A max.		
	PF	≥0.97@100Vac (full load)	≥0.95@230Vac (full load)	≥0.90@277Vac (full load)
	THD	≤15%		
	Efficiency	≥89%@100Vac (full load)	≥93%@230Vac (full load)	≥93%@277Vac (full load)
	Inrush Current	≤60A/500uS		
	Leakage Current	≤0.7mA		
	Standby Power Consumption	≤1.5W		
Protections	Surge	L-N: 6kV; L/N-PE: 8kV		
	Output Short Circuit	Hiccup mode (it will recover by itself after restarting up the LED driver)		
	Output Over Voltage	≤35V (In this protection mode, the output voltage will be turned off and the protection will recover after restarting up the LED driver)		
	Output Over Current	≤150% (it will recover after restarting up the LED driver)		
Environment Descriptions	Operating Temperature	-40°C ~ +60°C		
	Operating Humidity	20-90%RH (without condensation)		
	Storage Temperature/ Humidity	-40°C ~ 80°C (6 months in Class I environment); 10-90%RH (without condensation)		
	Atmospheric Pressure	86-106kPa		

■ Electrical Characteristics

Safety and EMC	Certifications	TUV-ENEC, CE, CB, SAA, RCM, UL (complies with Class P), FCC and CCC
	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 Standards	ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017, EN 62384: B2016/A1: 2009 CE-LVD: EN61347-2-13: 2014/A1: 2017, EN 61347-1: 2015, EN 62493: 2015 CB: IEC61347-1: 2015, IE61347-2-3: 2014, IEC61347-2-13: 2014/AMD1: 2016 RCM: AS 61347.2-13: 2018 CCC: GB19510.1-2009, GB19510.14-2009 UL: UL8750, CSA 250.13
	EMI	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
	Group Pulse	2.2kV (Class B)
	Ringing Wave	2.5kV (Class B)
	ESD	Air 8kV, touch 4kV (Class B)
Other Parameters	IP Rating	IP67
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 yrs (Tc≤71°C)
	Noise Level	≤20db (the data is tested in a soundproof room and the noise collector is 10cm away from the LED driver.)

■ **Electrical Characteristics**

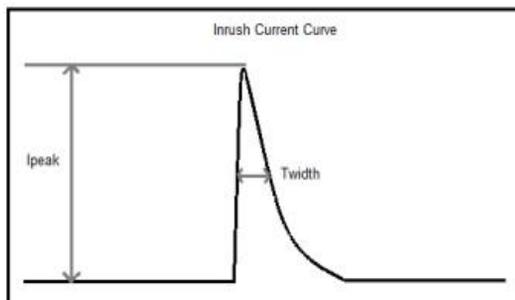
Additional Remarks	<p>1. It is recommended that client install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety.</p> <p>2. The LED driver used in combination with the end device is one of the accessories in the whole light fixture, and its EMC 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 performance of LED driver before the whole light fixture is finished.</p> <p>3. It is suggested that client use a slotted screwdriver or a Philips to adjust the output current of LED driver, otherwise the potentiometer may be damaged. (please use the screwdriver with an insulated handle, and the screwdriver with a 2mm head is recommended as well. Meanwhile, please pay attention that the intensity of torque not exceed 0.5KN.m)</p> <p>4. When adjusting the output current of LED driver, please pay attention that the total output power not exceed the maximum rated output power.</p> <p>5. The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac without any special remarks.</p>
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■ **Quantity & Parameters of LED Driver with the Same Model that a Circuit Creaker can Configure**

Name	Value	Note
Surge peak current Ipeak	46.6A	Input voltage: 230Vac
Surge half-peak time Twidth	280μs	Input voltage: 230Vac, measure the time for Ipeak to drop to its half value.
Quantity of LED driver with the same model that a type-B 16A circuit breaker can configure	9 pcs (max.)	/

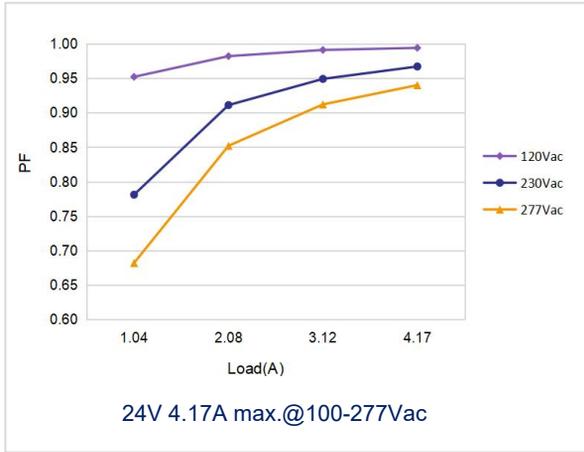
LED driver quantities are shown in the following table when other types of circuit breaker are used:

Type	Rank	Quantities of Accommodated Drivers	Relative Conversion Ratio
B	10A	5 pcs	63%
	13A	7 pcs	81%
	16A	9 pcs	100% (standard)
	20A	11 pcs	125%
	25A	14 pcs	156%
C	10A	9 pcs	104%
	13A	12 pcs	135%
	16A	15 pcs	170%
	20A	18 pcs	208%
	25A	23 pcs	260%

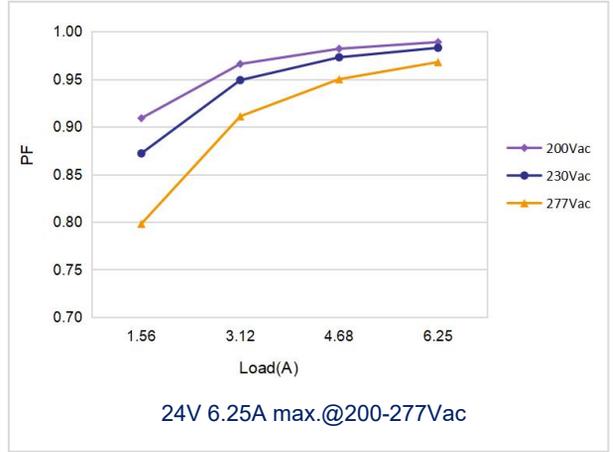


■ Product Characteristic Curves

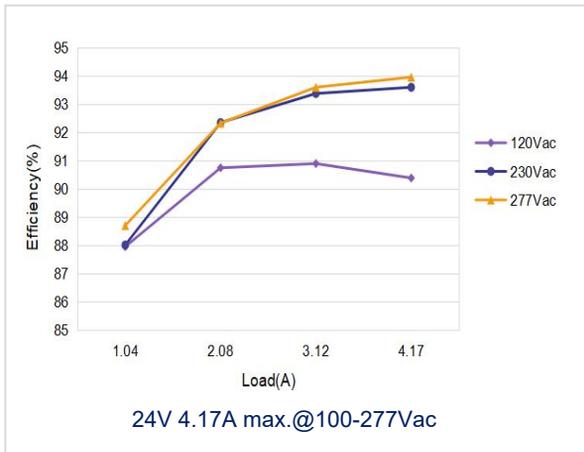
PF Curves 1



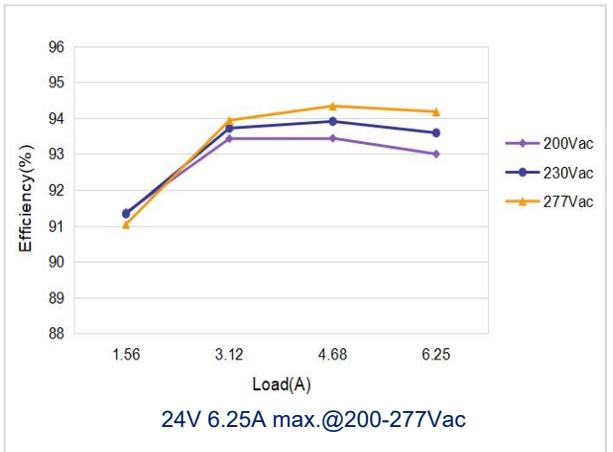
PF Curves 2



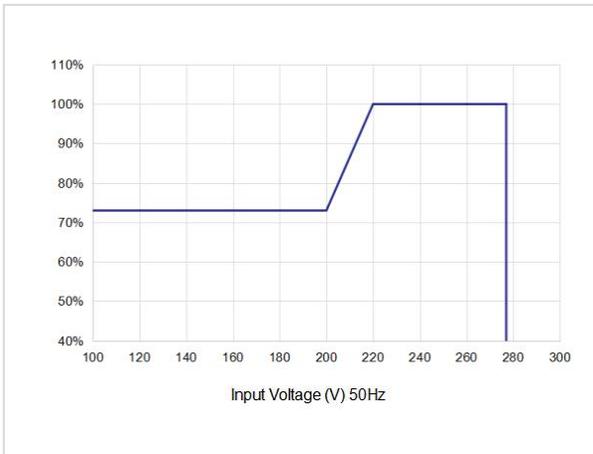
Efficiency Curves 1



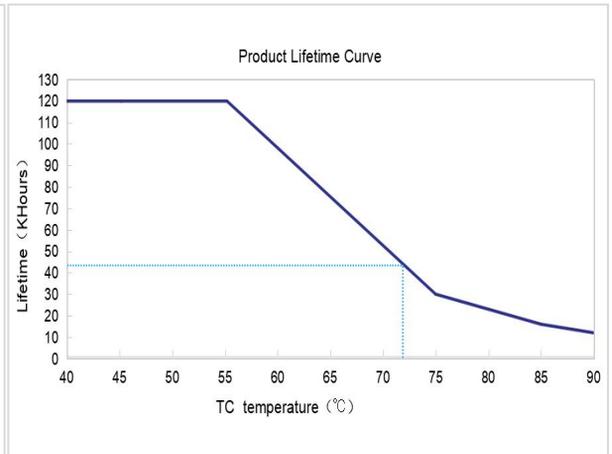
Efficiency Curves 2



Load Derating Curve



Lifetime Curve



■ **Dimming Operation Instructions**

Adjustable output voltage via a built-in potentiometer

Parameter	Minimum Value	Typical Value	Maximum Value	Note
Output Voltage	22Vdc	-	26Vdc	The total output power should NOT exceed 150W/100W

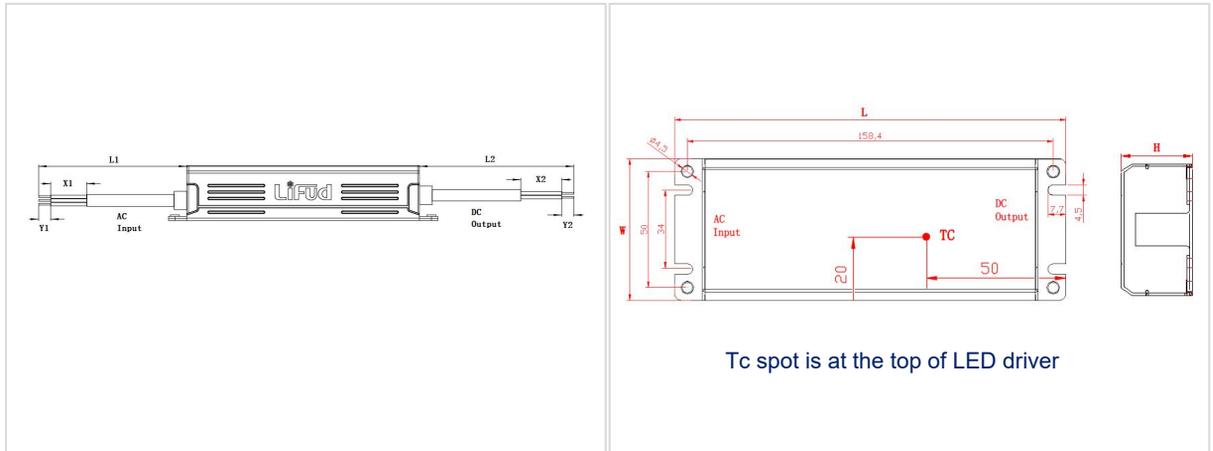
■ **Structure & Dimensions (unit: mm; tolerance: +0.5mm)**

Wire Specifications

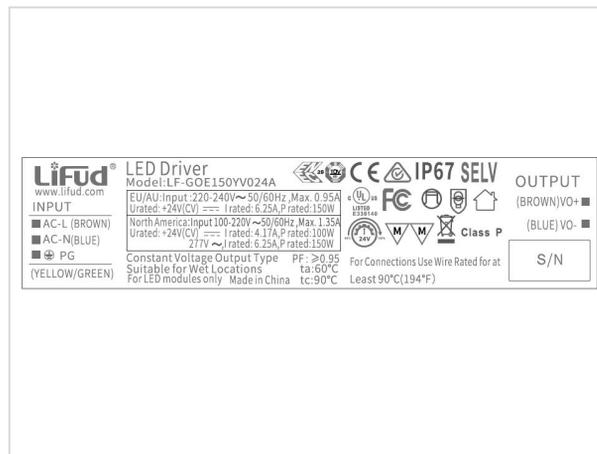
Type	Input Wire Specification	Output Wire Specification
YV	3*17AWG 1.04mm ² (SJOW, H05RN-F) $\Phi 8.2 \pm 1$ mm	2*17AWG 1.04mm ² (SJOW, H05RN-F) $\Phi 7.7 \pm 1$ mm
Color	AC-L Brown; AC-N Blue; GND Yellow & Green	VO+ Brown; VO- Blue
Length	300 ± 10mm (L1)	250 ± 10mm (L2)
Peeled	30 ± 4mm (X1)	30 ± 4mm (X2)
Tinned	10 ± 1.5mm (Y1)	6 ± 1mm (Y2)

Appearance and Dimensions

Description	Symbol	Unit (mm)
Casing Length	L	169.4
Casing Width	W	61
Casing Height	H	34



Label



■ Packaging Specifications

Model	LF-GOE150YV024A
Carton Size	420×300×210mm (L×W×H)
Quantity	6 pcs/layer; 4 layers/ctn; 24 pcs/ctn
Weight	0.7kg±5%/pc; 17kg±5%/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 Tecology Co., Ltd. reserves the right to interpret any contents of this specification.