

Specification

Customer: _____

Product Material No. : _____

Model No. : LF-GOE100YV024A

Version: V1.1

Customer Approval

Examination	Review	Approve

LIFUD Approval

Drafting	Review	Approve
Li Shuaihua	Xiao Hong	Zhong Chunlin

Model Numbers Chosen by Customer

Full model Number		Full model Number	
Full model Number		Full model Number	

E.C. List

Version	Description of Change	Engineer	Date
1.0	Formal release	Li Shuaihua	2019-06-01
1.1	Revised the picture of the product	Li Shuaihua	2019-10-28



1. Product Introduction



Product Features

- Conversion efficiency: up to 91%
- Input voltage: 100-277Vac, THD<15%
- Output voltage adjustable via a potentiometer; It helps to simplify your inventory management
- Surge protection: L-N: 6KV; L/N-GND: 8KV
- All-round protection: over temperature protection, over voltage protection, short circuit protection & IP67
- Flicker free output, percent flicker $\leq 0.5\%$

Application: outdoor lighting, flood light, lighting project

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

Certificate: CE, CB, ENEC, SAA, RCM, UL, FCC

Product Description

LF-GOE100YV024A series is a 100W LED power supply with a built-in potentiometer. Rated input voltage 100-277VAC. Input voltage limit 90-305VAC. This product was specifically designed for outdoor lighting, high bay light, flood light, lighting project.

Super high efficiency and excellent heat-dissipation properties of GOE help to extend the product lifetime. The high-power-factor GOE makes better use of the power grid. Its low harmonic interference means low interference with the power grid and the electric devices in the circuit. All-round protection design improves the product stability which helps to save users' maintenance cost.

The potentiometer at the bottom helps to adjust the output voltage/power of the product, satisfying customers' various demands.

2. Technical Data

Full Model Number		LF-GOE100YV024A
Output	Output Voltage	24VDC
	Output Current	4.17A maximum @220-277VAC / 3.125A maximum @100-277VAC
	Rated Power	220-277VAC @100W
		100-277VAC @75W
	Ripple Noise	<1V
	Current Tolerance	±2.5%
	Start-up Time	< 0.5s @230VAC
	Temperature Drift	±10%
	Load Regulation	±1%
Input	Input Line Regulation	±1%
	Input Voltage	100-277Vac (limit voltage: 90-305Vac)
	Input Frequency	47Hz-63Hz
	Input Current	1.0A maximum
	Power Factor	≥0.97/100VAC @full load
		≥0.95/230VAC @full load
		≥0.90/277VAC @full load
	Total Harmonic Distortion	≤15% @full load
	Efficiency	≥86%/100VAC @full load
		≥90%/230VAC @full load
		≥90%/277VAC @full load
	Inrush Current	<60A/500uS@230Vac
Stand-by Power Consumption	≤1.5W @230VAC	
Protective Feature	Overvoltage Protection	≤35V (cut off the output voltage, restart and recover)
	Overcurrent Protection	≤150% (restart and recover)
	Short Circuit Protection	Hiccup mode (restart and recover)
Environment Condition	Working Temperature	-40°C - +60°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
Safety & Norm	Certificate	CE, CB, ENEC, SAA, RCM, UL, FCC
	Withstanding Voltage	I/P-O/P: 3.75KVAC, <5mA 60s; I/P-FG: 1.5KVAC, <5mA 60s; O/P-FG: 0.5KVAC, <5mA 60s
	Insulation Resistance	I/P-O/P, I/P-FG, O/P-FG: 500VDC, >100MΩ
	Surge Rating	Conform to IEC61000-4-5 (L-N:6KV, L/N-PG:8KV)
	Electromagnetic Interference	Conform to GB17743 / EN55015, EN61000-3-2, CLASS B, FCC Part15

	Electromagnetic Susceptibility	Conform to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
Others	Packing (Weight)	Carton size: 420*300*210 (L*W*H); Weight: 0.7Kg ±5%/pc; 17Kg ±5%/ctn; Quantity: 24 pcs/ctn
	IP Rating	IP67
	Warranty Condition	5 years (TC≤76℃)
Testing Equipment	AC power source: CHROMA6530, Digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED strip light, 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 (flicker index tester) 60N-01, etc.	
Testing Condition	Unless otherwise stated, the electrical parameters above, including the power factor, THD and efficiency, are tested under the ambient temperature 25℃ and humidity 50%, input 230Vac and 100% load.	
Additional Remark	<ol style="list-style-type: none"> It is recommended that customer should install protection devices for surge, for overvoltage and for undervoltage to ensure safety before connecting to electricity. The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture must conform to UL94 V-0 flammability standard or above. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED luminaire. 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. 	

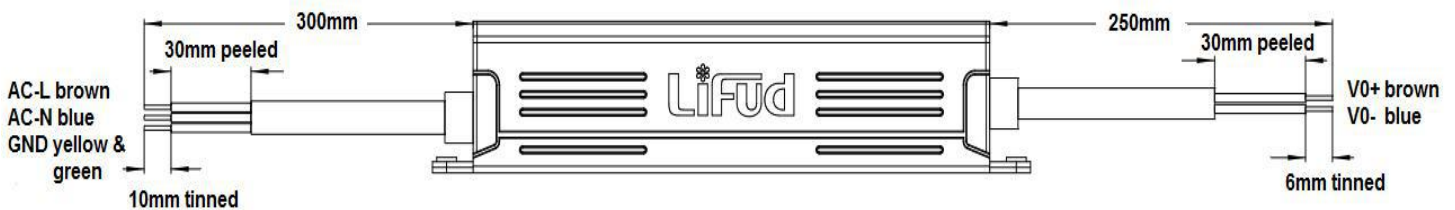
3. Dimming Features

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

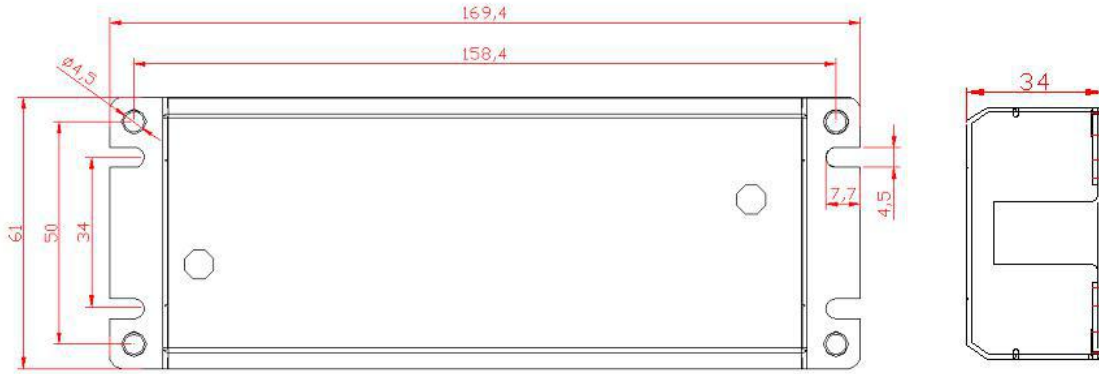
Feature	Minimum	Rated	Maximum	Remark
Output range of dimming	22VDC	-	26VDC	The total output power of the light fixture should NOT exceed 100W otherwise LIFUD will NOT provide quality assurance. (Vout * Iout = Pout)

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 0.5KNM. Make sure the insulation of the screwdriver is good enough.

4. Dimensional Drawing (Unit: mm ± 20mm)

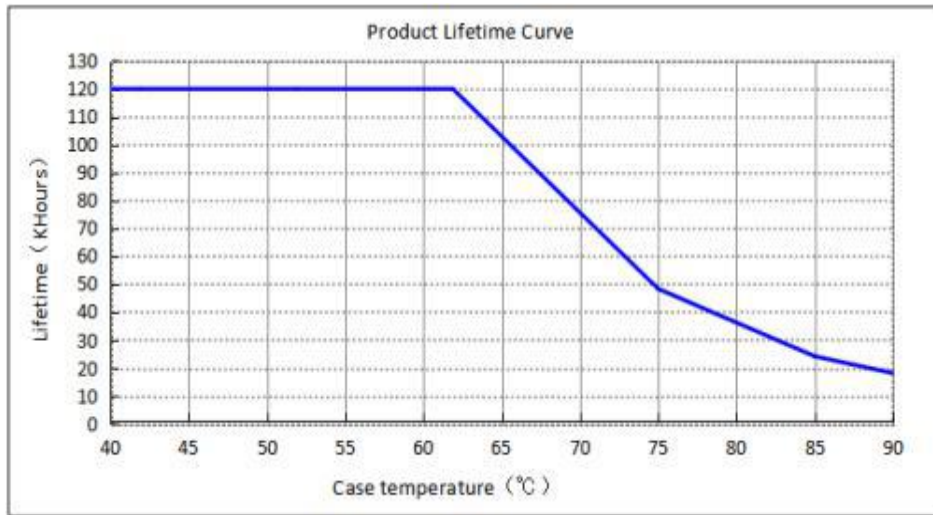


Cable specification: input 3*17AWG/3*1.04mm² (SJOW, H05RN-F) ØD8±1mm
output 2*17AWG/2*1.04mm² (SJOW, H05RN-F) ØD8±1mm

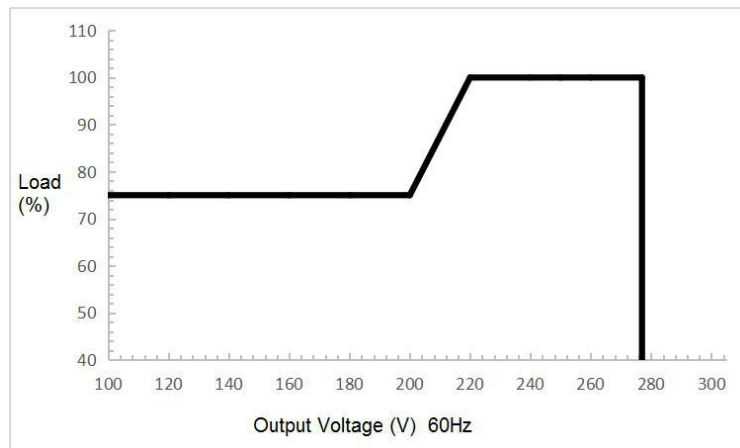


5. Product Lifetime Curve

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



6. Load Derating Curve



Remark: The output derating happens when the input voltage is low.

7. Packaging Specification

Packaging dimension	420×300×210mm (L×W×H)
Quantity	6 pcs /layer; 4 layers /ctn; 24 pcs /ctn
Weight	0.7 Kg±5% /pc; 17 Kg±5% /ctn

8. Transportation & Storage

8.1 Transportation

- (1) Transportation means: by means of vehicles, boats and aircraft.
- (2) In transportation, there should be awnings or sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

8.2 Storage

- (1) Storage in accordance with the provisions of GB 3873-83.
- (2) Products which have been stored for more than one year must be re-inspected. Use them only after passing the re-inspection.

9. Attention

- 9.1 Use this product according to the specifications, please. Otherwise there may be malfunction.
- 9.2 Use luminaires that have not been certified or are not compatible with the drivers may cause fire, explosion or other hazards.
- 9.3 Man-made damage is not covered by warranty.
- 9.4 The withstanding voltage of the aluminium substrate should meet the requirement.

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