LF-GHY150H48-SP

LF-GHY150H48-SP　SELV C.V. Output with 3.13A Max. | Constant Voltage - Non Dimmable

Product family features

— High efficiency, high PF, low THD

— SELV output

— Flicker free

— 5 years guarantee

Product family benefits

— High efficiency

— Flicker free

— Long lifetime and high reliability

— SELV output

Typical applications

— For LED strips

— For office, commercial and decorative lighting

Product parameters

— Output current 0-3.13A

— Output power 0-150W

— Input voltage 198-264Vac

— Output voltage 48V

— Efficiency 94%

Electrical data

Input data

Rated input voltage	220... 240V
Input voltage AC	198 ... 264V
Mains frequency	0/50/60Hz
Input voltage DC	220...240V [1)]
Power factor	≥0.95 [2)]
Efficiency	≥94%
THD	≤10%
Input current	0.85A Max
Inrush current	65A[3)]
Loading no. on circuit breaker 10 A (B)	3
Loading no. on circuit breaker 10 A (C)	6
Loading no. on circuit breaker 16 A (B)	6
Loading no. on circuit breaker 16 A (C)	10

Output data

Nominal output voltage	48V[4)]
Nominal output current	0...3.13A
Maximum output power	150W
Nominal output power	0...150W
Flicker	According to IEEE Std 1789-2015
CIE SVM	≤0.4
IEC-Pst	≤1
Current tolerance	/
Ripple voltage	1000mV Max
Voltage tolerance	±2%
No-load voltage	49V Max
Start-up time	<0.5S

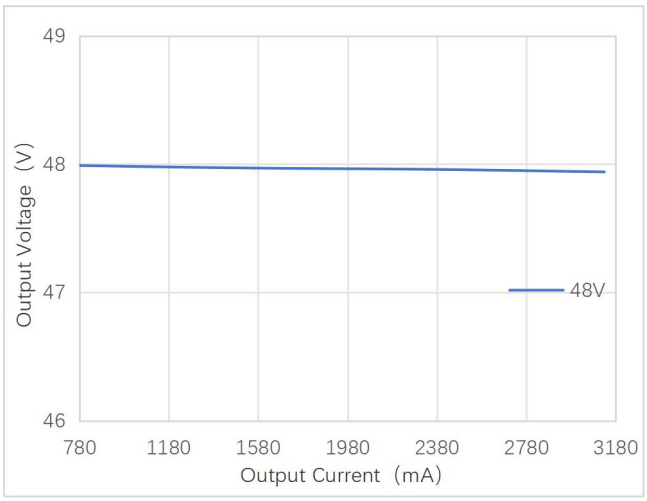
Safety

Withstanding voltage	I/P-O/P: 3.75kV&5mA&60S
Surge capability (L-N)	2 kV
Surge capability (L/N-Ground)	-
Insulation resistance	I/P-O/P: ＞100MΩ@500VDC
Guarantee	5 years[5)]

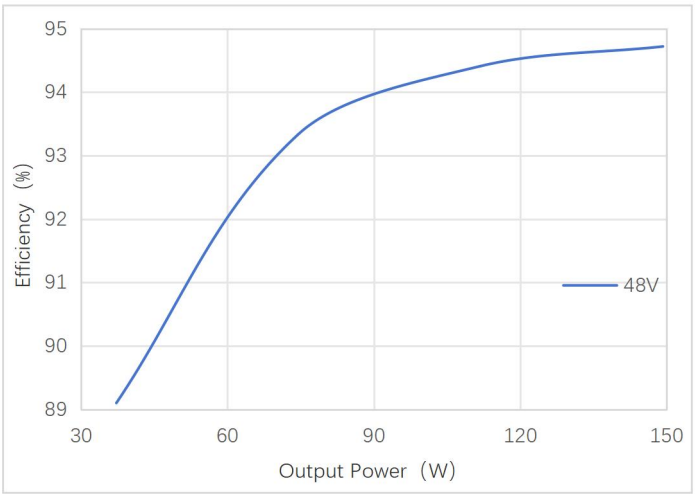
1) DC input is only for emergency, limited input voltage range: 180-264V
2) Power≥80W
3) t =300μs
4) Please refer to the operating window for the relationship between the output voltage and current
5) 5 years@Tc≤85℃
6) The product fails to meet the single harmonic requirements of the EN61000-3-2 standard when the load is below 30%

Characteristic diagrams

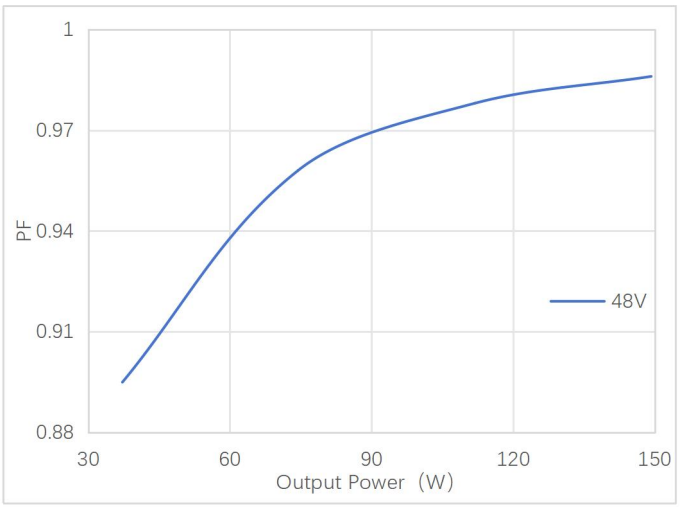
Operating Window



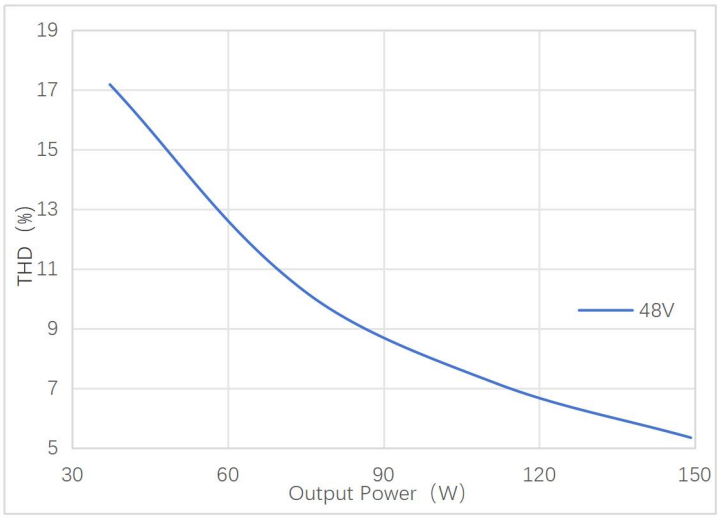
Typical Efficiency vs Load



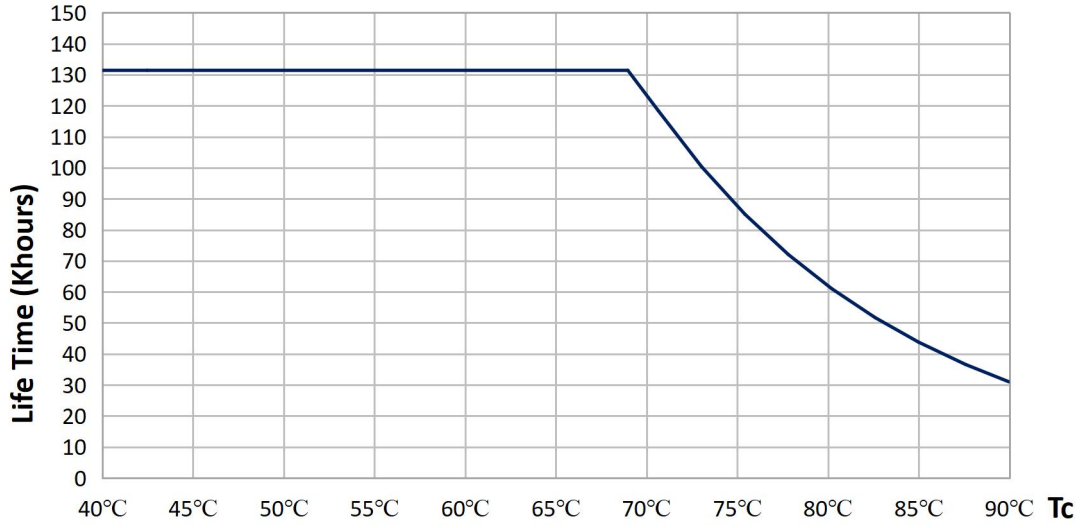
Typical Power Factor vs Load



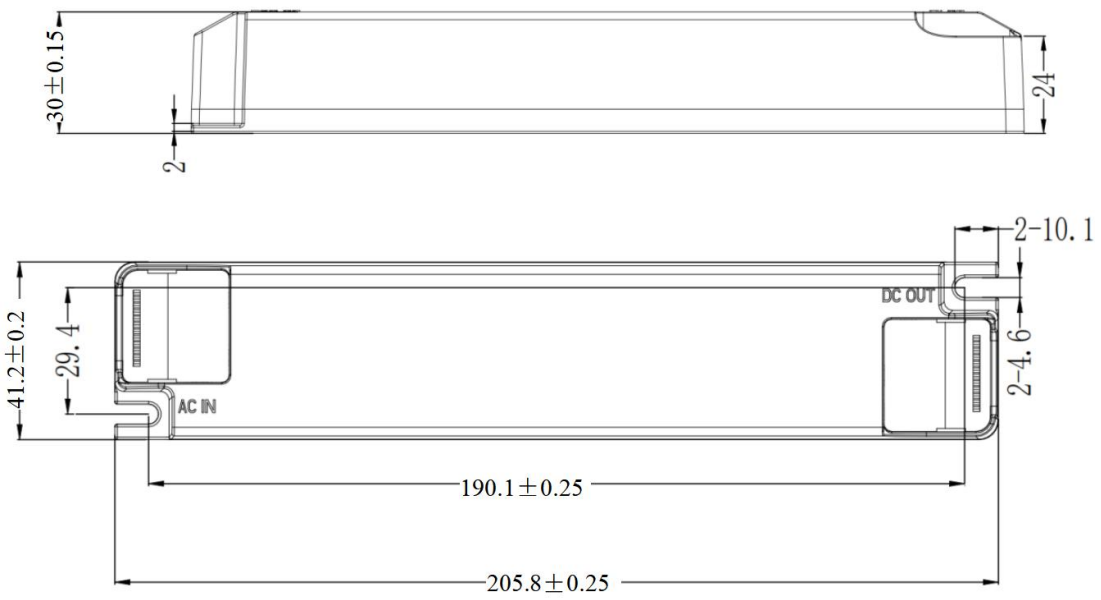
Typical THD vs Load



Lifespan



Dimensions (unit: mm)



Mounting hole spacing, length	190.1±0.25mm
Positioning hole diameter	4.6mm
Product weight	249±5%g
Cable cross-section, input side	0.75 ... 1.5 mm²
Cable cross-section, output side	1.0 ... 2.5 mm²
Wire preparation length, input side	6... 7mm
Wire preparation length, output side	6... 7mm
Length	205.8±0.25mm
Width	41.2±0.2mm
Height	30.0±0.15mm

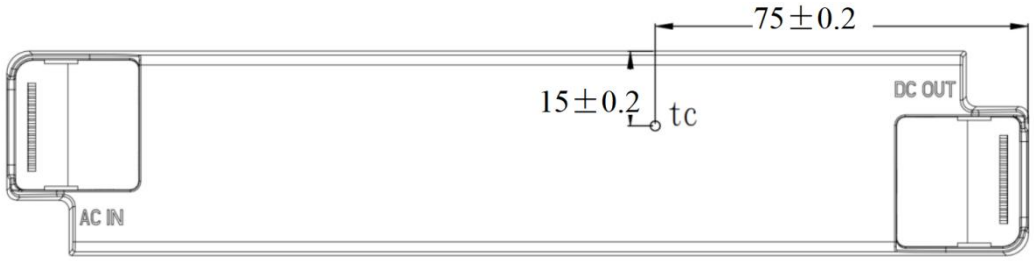
Colors & materials

Casing material	PC
Casing color	White

Temperature & operating conditions

Ambient temperature range	-30 ... +50°C
Maximum temperature at tc test point	90°C
Temperature range at storage	-30 ... +80℃ (6 months in Class I environment)
Humidity range at storage	20-95%RH (no condensation)
Humidity during operation	20-90%RH
RoHS	RoHS 2.0 (EU) 2015/863

Tc test point (unit: mm)



Note: The picture is a front view. The Tc point is on the front of the product.

Product terminal

Input		Output	
AC-L	AC live wire input	**LED+**	Positive terminal output of LED driver
AC-N	AC neutral wire input	**LED-**	Negative terminal output of LED driver
		LED+	Positive terminal output of LED driver
		LED-	Negative terminal output of LED driver

Capabilities

Dimmable	-
Over-temperature protection	-
Overload protection	110-150% (Auto-recovery)
Short circuit protection	Hiccup mode (Auto-recovery)
No-load protection	-
Suitable for fixtures	II
Control interface	-
Output interface	2 channels

Programming

Programming device	-
DALI control software	-
APP	-

Certificates & standards

Approval marks – approval	CE, CCC, ENEC, RCM, CB
Standards	GB 19510.1-2009, GB 19510.14-2009, GB 7000.1-2015 IEC/EN 61347-2-13, IEC/EN 61347-1, IEC/EN 62493 IEC/EN 62384 AS 61347.1, AS 61347.2.13
EMC	GB 17625.1-2022, GB/T 17743-2021 EN 55015, EN 61547, EN 61000-3-2,3
Type of protection	IP20

Logistical data

Product	Packaging unit (Pieces/Unit)	Dimensions (L*W*H)	Volume	Gross weight
LF-GHY150H48-SP	42	385mm*285mm*210mm	23.04 dm³	10.5kg±5%

Test equipment & condition

Test equipment	AC power source: CHROMA6530, digital power meter: CHROMA66205, 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, spectroanalyzer: KH3935, hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test): Everfine LFA-3000, etc.

If there are no special remarks, the above parameters are tested at the ambient temperature of 25℃, humidity of 50%, maximum output load and input voltage of 230Vac/50Hz.

Additional information

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. The number of LED drivers that can be connected to a circuit breaker and the inrush current are tested under the same conditions.

4. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above.

Transportation & storage

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 on LED driver as much as possible.

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.

Disclaimer

Subject to change without notice. Errors and omissions excepted. Always make sure to use the most recent release.

Lifud Technology Co., Ltd. reserves the right to interpret any content of this specification.