

# LF-008SxxxxH

008S SELV | Constant Current - Non Dimmable



# **Product family features**

- Flicker free
- Ultra-quiet operation
- IP20
- 5 years guarantee

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# Product family benefits

- Compact volume: compatible with 35mm hole
- High cost performance

# **Typical applications**

- For indoor down light
- For spotlight, wall light

# **Product parameters**

- Output current 80/100/120/135/150/160/180/200/220mA
- Output power 2.4-8.4W

- Output voltage 30-40Vdc

- Efficiency 82%

- Input voltage 220-240Vac

# **Electrical data**

Input data	
Rated input voltage	220 240V
Input voltage AC	198 264V
Mains frequency	50/60Hz
Phase factor	≥0.7
Power factor	≥0.5
Efficiency	≥82%1)
THD	1
Input current	0.1A Max
Inrush current	15A <sup>2)</sup>
Loading number on circuit breaker 10 A (B)	83
Loading number on circuit breaker 10 A (C)	83
Loading number on circuit breaker 16 A (B)	132
Loading number on circuit breaker 16 A (C)	132
Protective conductor current	≤0.7mA
Output data	
Nominal output voltage	30 40V <sup>3)</sup>
Nominal output current	80/100/120/135/150/160/180/200/220mA
Maximum output power	8.4W
Nominal output power	2.48.4W
Output ripple current (100 Hz)	<5%
Flicker	According to IEEE Std 1789-2015
CIE SVM	≤0.4
IEC-Pst	≤1
Current tolerance	±7% <sup>4)</sup>
Temperature tolerance	±10%
Start-up time	<0.5S
Safety	
Withstanding voltage	I/P-O/P: 3.75kV&5mA&60S
Surge capability (L-N)	L-N: 1kV
Surge capability (L/N-Ground)	-
Insulation resistance	I/P-O/P: >100MΩ@500Vdc
Guarantee	5 years <sup>5)</sup>
1) 82%@135-220mA, 79%@100-120mA, 73%@	80mA

2) t =60µs

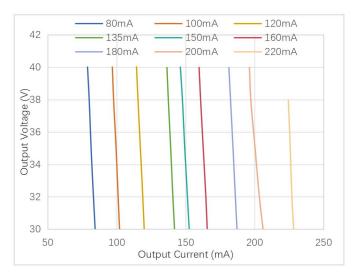
3) The output voltage is 30-38V when the output current is 220mA; LF-008S0135H can meet the new standard IEC 61000-3-2:2019/A1:2021 with the output voltage range of 34-40Vdc; LF-008S0150H can meet the new standard IEC 61000-3-2:2019/A1:2021 with the output voltage range of 31-40Vdc.

4) 7%@135-220mA, 8%@100-120mA, 9%@80mA

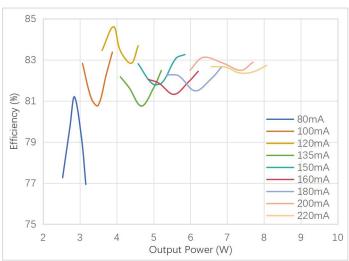
5) **5 years@Tc≤75**℃

# Characteristic diagrams

#### **Operating Window**

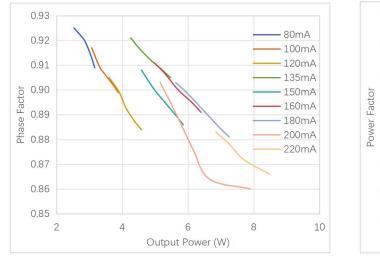


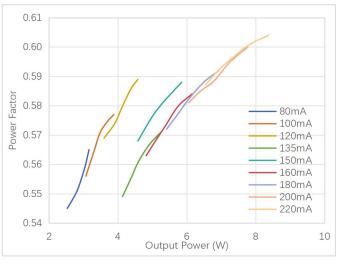
**Typical Phase Factor vs Load** 



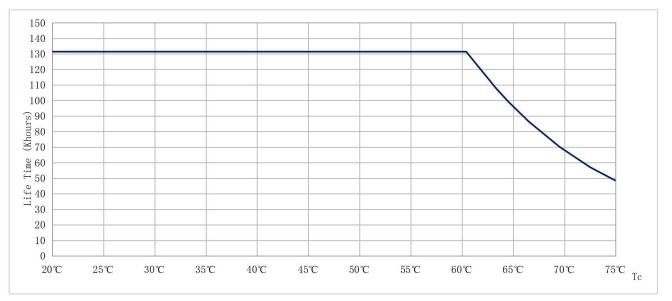
**Typical Efficiency vs Load** 

#### **Typical Power Factor vs Load**



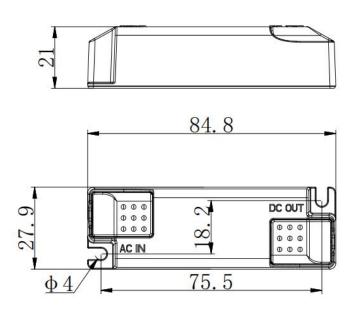


# Lifespan



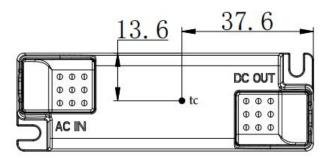
May 14, 2025 V1.5 LF-008SxxxxH

# Dimensions



Mounting hole spacing, length	75.5mm	
Positioning hole diameter	4.0mm	
Product weight	30 g	
Cable cross-section, input side	0.75 1.5 mm <sup>2</sup>	
Cable cross-section, output side	0.5 1.5 mm²	
Cable outer diameter, input side	3 5mm	
Cable outer diameter, output side	3 5mm	
Wire preparation length, input side	7 8mm	
Wire preparation length, output side	7 8mm	
Length	84.8mm	
Width	27.9mm	
Height	21mm	
Colors & materials		
Casing material	PC	
Casing color	White	
Temperature & operating conditions		
Ambient temperature range	-20 +45°C	
Maximum temperature at tc test point	75°C	
Temperature range at storage	-40 +80 $^\circ\!\mathrm{C}$ (6 months in Class I environment)	
Humidity range at storage	10-90%RH (no condensation)	
Humidity during operation	20-90%RH	
RoHS	RoHS 2.0 (EU) 2015/863	

# Tc test point



Note: The picture is a front view, and 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		

# Capabilities

Capabilities		
Dimmable	-	
Over-temperature protection	-	
Overload protection	-	
Short circuit protection	Self-recovery	
No-load protection	<59V	
Input overvoltage protection	-	
Suitable for fixtures with prot. class	II	
Control interface	-	
Output interface	-	
Programming		
Programming device	-	
DALI control software	-	
АРР	-	
Certificates & standards		
Approval marks	CCC, ENEC <sup>1)</sup> , CB, RCM, UKCA, CE <sup>2)</sup>	
Standards	GB 19510.1-2009, GB 19510.14-2009 IEC/EN 61347-2-13, IEC/EN 61347-1, IEC/EN 62493 IEC/EN 62384 AS 61347.1, AS 61347.2.13	
ЕМС	GB 17625.1-2022, GB/T 17743-2021 EN 55015, EN 61547, EN 61000-3-2,3	
Type of protection	IP20	

Note: 1) The ENEC label of 100/120/150mA products has been updated to the latest ENEC label

2) LF-008S0080H complies with CE

# Logistical data

Product	Packaging unit	Dimensions (L*W*H)	Volume	Gross weight
	(Pieces/Unit)			
LF-008SxxxxH	288	385mm*285mm*223mm	24.47 dm <sup>3</sup>	8.8kg±5%

### **Test equipment & condition**

	AC power source: CHROMA6530, digital power meter: CHROMA66205,
Test equipment	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  $25^{\circ}$ C, 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.