

LF-SPD-20-320 I A/B

Surge Protection Device

Product family features

- Max. continuous operation voltage: 320Vac
- Surge protection: 20kV/10kA
- Voltage protection level(Up) L-N: <1.8kV,
L-PE: <2kV
- According to IEC 61643-11 standard-T2&T3
- Suitable for Class I light fixtures
- IP20

Product family benefits

- Surge level: 20kV(T3)/10kA(T2)
- Two terminals available: 45° push terminals or screw terminals
- With status indicator
- Fully compliant with IEC 61643-11

Typical applications

- For street lighting, urban lighting, and industrial lighting
- Outdoor application: light fixture IP>54

Electrical data

Input data

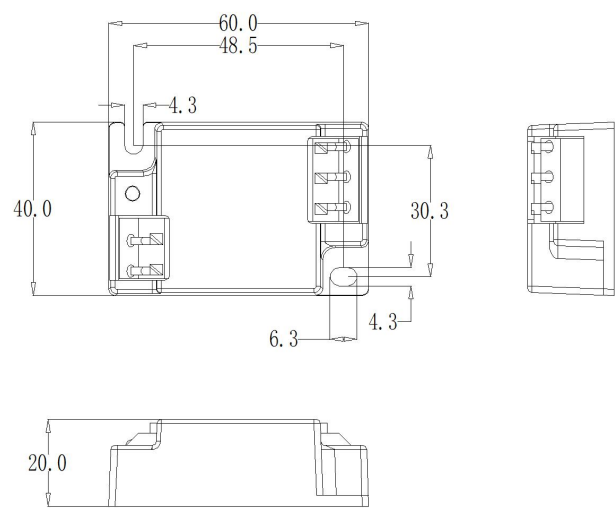
Rated supply voltage	100 ... 277V
AC voltage range	100 ... 305V
Max. continuous operation voltage	320V
Mains frequency	50/60Hz
Protection mode	L-N; L-PE
Combination wave generator/ Open-circuit voltage	20kV
Voltage protection level	L-N: <1.8kV; L-PE: <2kV
TOV behavior (5 s/withstand mode)	403Vac
TOV behavior (120 min./safe failure mode)	528Vac
Rated load current	10A
Nominal discharge current (8/20 μ s)	L-N: 10kA; L-PE: 10kA
Max. discharge current (8/20 μ s)	L-N: 20kA; L-PE: 20kA
Max. backup fuse	20A
AC system	TT, TN, IT
Classification	ClassII (T2) + ClassIII (T3)
Suitable for fixtures with prot. class	I

Temperature & Operating conditions

Ambient temperature range	-40°C - +85°C
Maximum temperature at Tc test point	90°C
Warranty	8 years
Temperature range at storage	-40°C - +80°C (6 months in Class I environment)
Humidity range at storage	20-75%RH (no condensation)
Humidity during operation	20-95%RH (no condensation)
Atmospheric pressure	86-106KPa
RoHS	RoHS 2.0 (EU) 2015/863
IP rating	IP20
Certifications	CE

Note: A/B in LF-SPD-20-320 I A/B indicates different wiring terminals. A refers to 45° push terminal, while B refers to screw terminal.

Dimensions

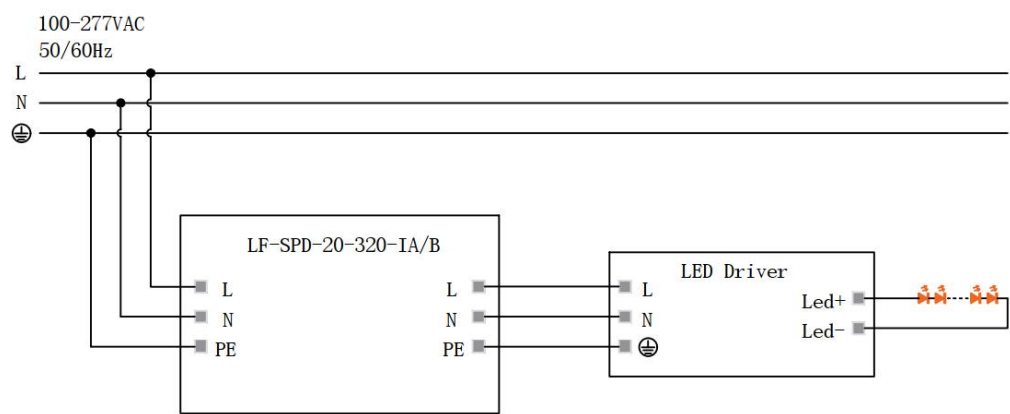


Product weight	g
Cable cross-section, output side	0.75 ... 1.5 mm²
Wire preparation length, input side	7 ... 8mm
Wire preparation length, output side	7 ... 8mm
Length	60mm
Width	40mm
Height	20mm

Colors & materials

Casing material	PC
Casing color	White

Wiring diagram



Certificates & standards

Approval marks	CE/T2/T3
Standards	IEC 61643-11
Type of protection	IP20

Logistical data

Product	Packaging unit (Pieces/Unit)	Dimensions (L*W*H)	Volume	Gross weight
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LF-SPD-20-320 I A/B

Test equipment & condition

Test equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, 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.
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If there are no special remarks, the above parameters are tested at the ambient temperature of 25℃ and humidity of 50%.

Additional information

1. The final interpretation of the above parameters belongs to Lifud.

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.