



75W constant Voltage-LS Series

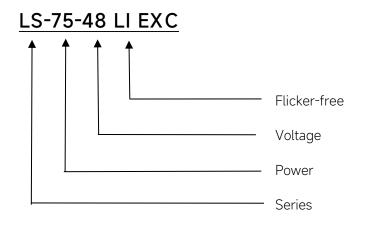


Class II, SELV, Independent Input Voltage 220-240VAC Protections: SCP/OLP/OVP/OTP Power Factor: ≥0.95(Typ.) Efficiency: ≥90%@48V(Typ.) 5 years warranty Applications LED strips

Description

LS-75-48 LI EXC is a 75W constant voltage LED driver that operates from 198-264Vac input with 48V output voltage. With it's compact dimensions from 168 x 38x 30mm. It is easy to integrate in LED strips products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

Model code





Specification

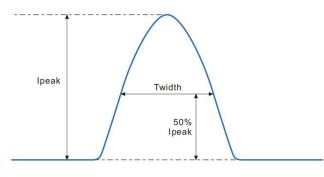
Output	Constant Voltage	48VDC		
	Current Range	0-1.56A		
	Voltage Accuracy	±5%		
	Output HF current ripple(≥1KHz)	±1%		
	Output LF current ripple(<120Hz)	±1%		
	SVM	≤0.4@Full Load		
	Pst	≤1@Full Load		
	Efficiency(Typ.)	≥90%@Full load,230V		
	Rated input voltage	220-240VAC		
	Range of input voltage	198-264VAC		
	Frequency(Hz)	50/60 Hz		
	Displacement factor	≥0.95		
Input	Power Factor	≥0.95@Full load,230V		
	Input Current max	0.49A		
	Start-up time	< 0.5S		
	No Load Power	≤0.5W		
	THD (Typ.)	<10%@Full load,230V		
	Over Load Protection	105-150%		
		YES/Auto Resume		
.		> 49.8VDC		
Protection	Over Voltage Protection	YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
	Over Temperature Protection	YES/Auto Resume		
	Surge capability (L-N)	1KV		
capability	Surge capability (L/N-Ground)	2KV		
	Operating Temperature	-20°C~+45°C		
	Humidity	20%-90%RH		
_	Тс	90°C		
Environment	Storage Temperature	-20°C~+60°C		
	Life time	>50000h@Tc=85°C		
	Ripple & Noise	≤25dB(A)@20cm		
	Dimension	168X38X30(LXWXH)mm		
Surface	material	PC		
Standards	Safety	GB19510. 1, GB19510. 14;EN61347- 1, EN61347-2- 13;S/NZS 61347- 1, AS/NZS		
		61347-2- 13		
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3,		
		EN61547;EN61000-4-5;EN 62493		
	Energy Efficiency	Erp2.0 EU 2019/2020		
	RoHS	RoHS (2011/65/EU) (EU)2015/863		



Note	 1.All parameters NOT specially mentioned are measured at 240VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.Switch and dimmer are not recommended to connect between this product output and luminaries. 4.All Astralux power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.
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Inrush Current

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
35.2A	246µ s	9pcs	14pcs	18pcs	15pcs	24pcs	31pcs



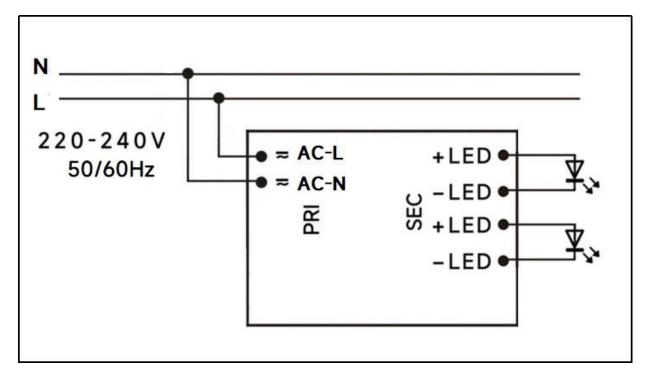
Remarks:

1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

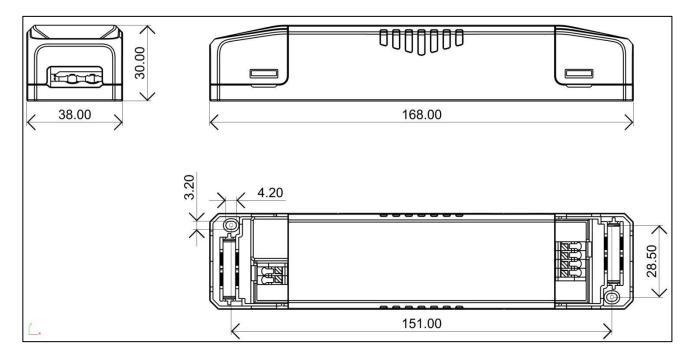


Wiring diagram

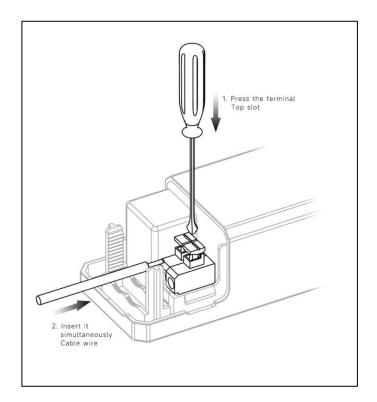




♦ 2D diagram



Terminal





Wiring & Connections

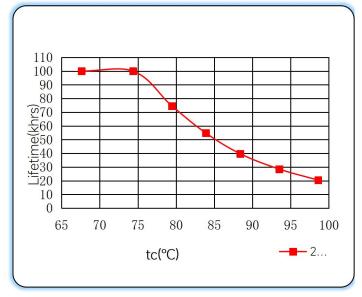
Specification item		Value (Unit)
Input	Input wire cross-section	0.51.5 mm ²
	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
Output	Output wire cross-section	0.51.5 mm ²
	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

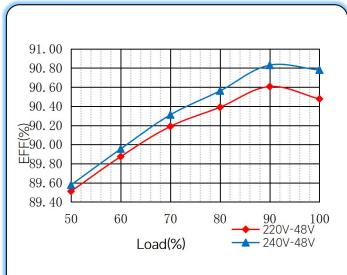
Note:Solid wire is risky to use on an angled terminal.Stranded wire is recommended for this kind of use.



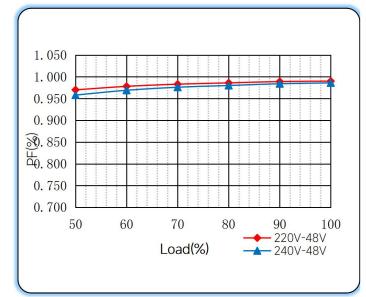
Curve for LS-75-48 LI EXC

Lifetime vs. Temperature Curve



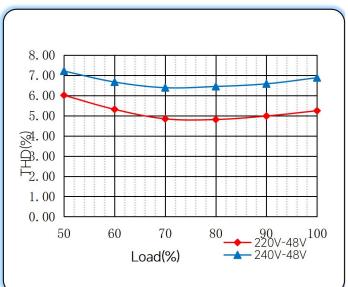


Power Factor Characteristics



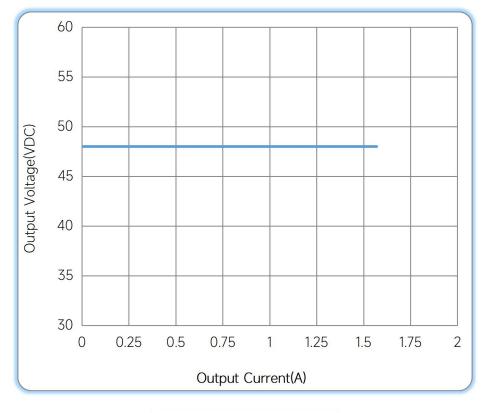
THD vs. Load

Efficiency vs. Load





Operating window



Operating window 100%

Revision Updates

	ITEM	BEFORE	AFTER	VERSION	DATE
	Initial			A	2023/11/28
Rip	ple & Noise	≤20dB(A)@10cm	≤25dB(A)@20cm	В	2023/12/18

Remark: The final interpretation of the contents of the specification belongs to Astralux.

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