

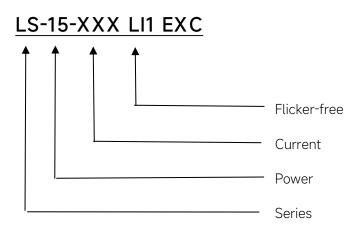
15W Constant Current power supply



Description

LS-15-XXX LI1 EXC is a 15W constant current LED driver that operates from 198-264Vac input with 350mA output current. With it's compact dimensions from 102 x 38.2 x 25mm it is easy to integrate in LED Panel, spot, down lights. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

Model code





Specification

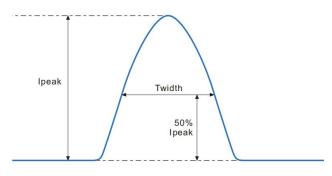
	Constant Current (mA)	350		
	Voltage Range(VDC)	27-42		
	Unload voltage Max.(VDC))	59V		
Output	Current Accuracy	±5%		
Output	Output HF current ripple(≥1KHz)	±5%		
	Output LF current ripple(<120Hz)	±3%		
	SVM	≤0.4		
	P _{st}	≤۱		
	Efficiency(Typ.)	84%		
	Rated input voltage	220-240VAC		
	Range of input voltage	198-264VAC		
	Maximum voltage	300VAC@1 h maximum, unit might not operate in this abnormal condition		
	Frequency(Hz)	50/60 Hz		
المعرية	Displacement factor(Typ.)	≥0.95		
Input	Power Factor	≥0.95		
	Input Current max	0.095A		
	Start-up time	< 0.5S		
	No Load Power	≤0.5W		
	THD (Typ.)	<10%		
	Over Load Protection	103-130%		
	Over Load Protection	YES/Auto Resume		
Protection		59VDC		
	Over Voltage Protection	YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
oonohilita (Surge capability (L-N)	1KV		
capability	Surge capability (L/N-Ground)	NA		
	Operating Temperature	-20°C~+45°C		
	Humidity	10%-90%RH		
Environment	Тс	80°C		
Environment	Storage Temperature	-25℃~+60℃		
	Life time	>50000h@Tc=75°C		
	Noise	≤20dB(A)@10cm		
Cumfaca	Dimension	102x38.2x25mm		
Surface	material	PC		
	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347- 13;EN62384		
Standards	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11		



	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 230VAC 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.The over-temperature protection of the product is provided by the IC. 				
	5.All Eaglerise 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.				

Inrush Current

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
14.6A	118µs	49pcs	78pcs	98pcs	81pcs	130pcs	163pcs



Remarks:

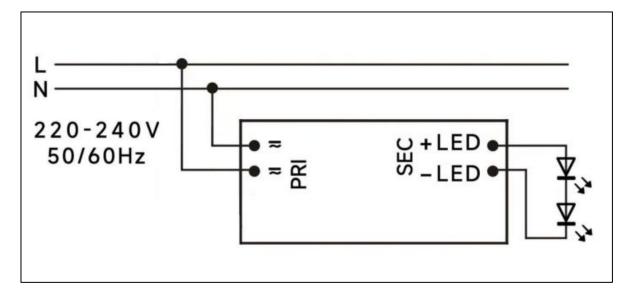
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

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



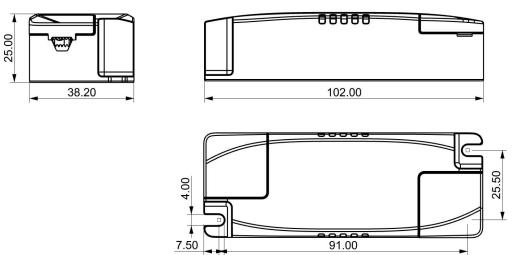
LS-15-XXX LI1 EXC

Wiring diagram

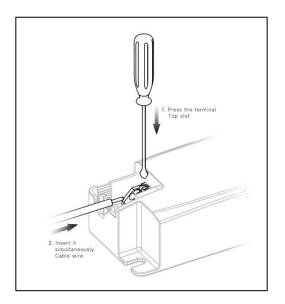




♦ 2D diagram



Terminal





Wiring & Connections

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

Recommended wire

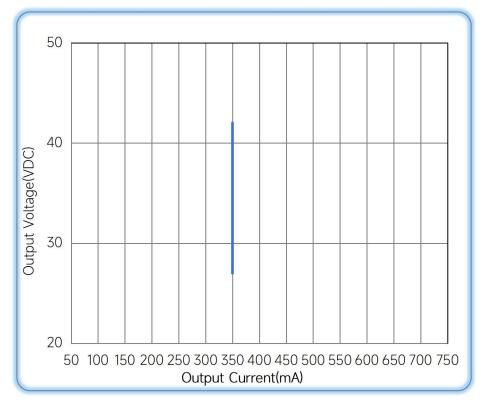
Wire cross-section	Wire type
2*0.5mm ²	H03VVH2-F 2core
2*0.75mm ²	H03VVH2-F 2core
1.5mm ²	CCC 08(RV-90)
16AWG(1.25mm ²)	UL1015

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





Operating window



Operating window 100%

Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/01/09

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

E-mail: sales@astralux-driver.com Website : www.astralux-driver.com