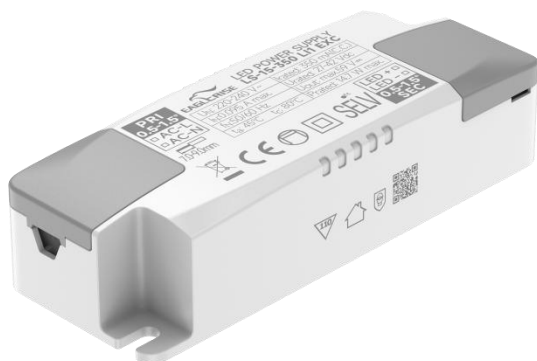


15W Constant Current power supply



■ Approve



Features

- For luminaires of protection Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor ≥ 0.95
- Efficiency: 84%
- 5 years warranty

Applications

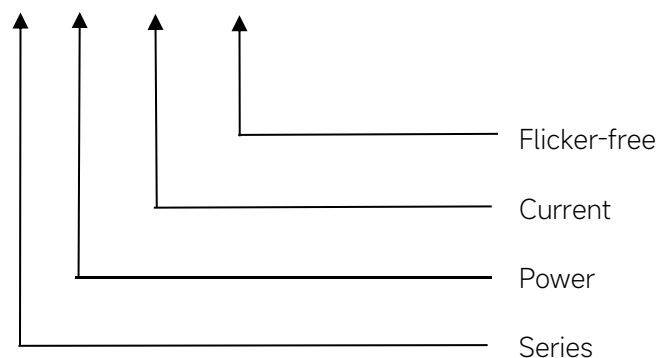
- LED panel, LED down light
- LED spot light

◆ 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

LS-15-XXX LI1 EXC



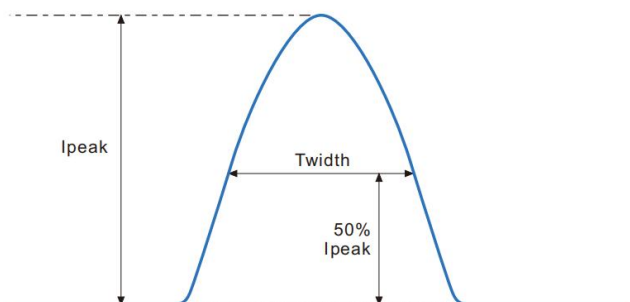
◆ Specification

Output	Constant Current (mA)	350mA
	Voltage Range(VDC)	27-42VDC
	Unload voltage Max.(VDC))	59V
	Current Accuracy	±5%
	Output HF current ripple(≥1KHz)	±5%
	Output LF current ripple(≤120Hz)	±3%
	SVM	≤0.4@full load, 230Vac
	P _{st}	≤1@full load, 230Vac
	Efficiency(Typ.)	84%@full load, 230Vac
Input	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
	Displacement factor(Typ.)	≥0.95@full load, 230Vac
	Power Factor	≥0.95@full load, 230Vac
	Input Current max	0.095A
	Start-up time	< 0.5S
	No Load Power	≤0.5W
	THD (Typ.)	< 10% @full load, 230Vac
Protection	Over Load Protection	103-130%
		YES/Auto Resume
	Over Voltage Protection	59VDC
		YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
capability	Surge capability (L-N)	1KV
	Surge capability (L/N-Ground)	NA
Environment	Operating Temperature	-20°C~+45°C
	Humidity	10%-90%RH
	T _c	80°C
	Storage Temperature	-25°C~+60°C
	Life time	> 50000h@T _c =75°C
	Noise	≤20dB(A)@10cm
Surface	Dimension	102x38.2x25mm
	material	PC
Standards	Safety	GB/T 19510. 1, GB/T 19510. 213; IEC 61347- 1, IEC 61347-2- 13; EN 61347- 1, EN 61347-2- 13; EN 62384
	EMC	GB/T 17743, GB 17625. 1; EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547; EN 61000-4-5; EN 61000-4-2,3,4,5,6,8,11

	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

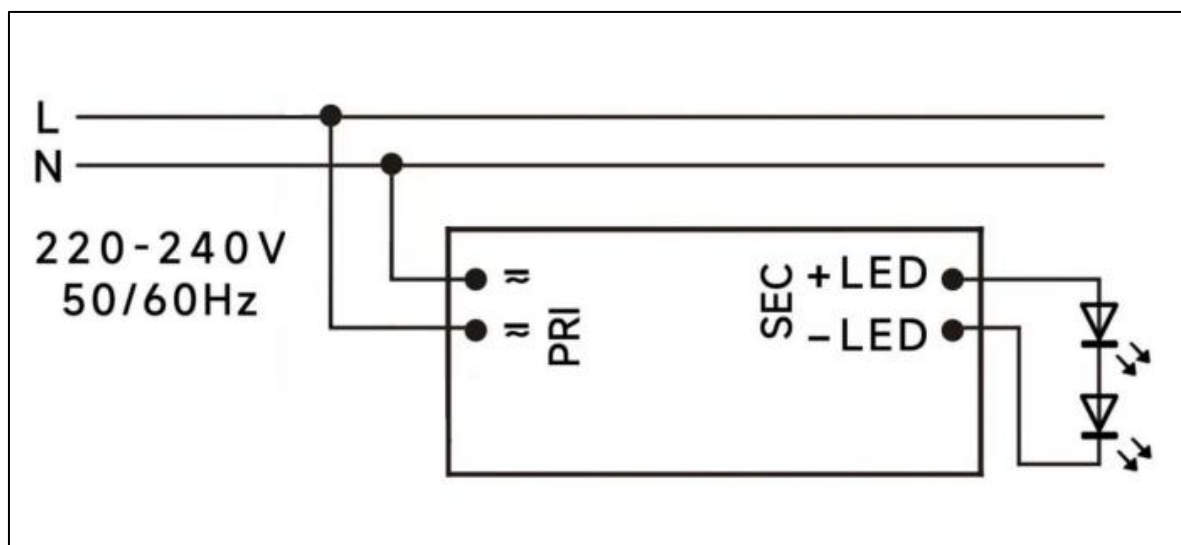
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
14.6A	118μs	49pcs	78pcs	98pcs	81pcs	130pcs	163pcs



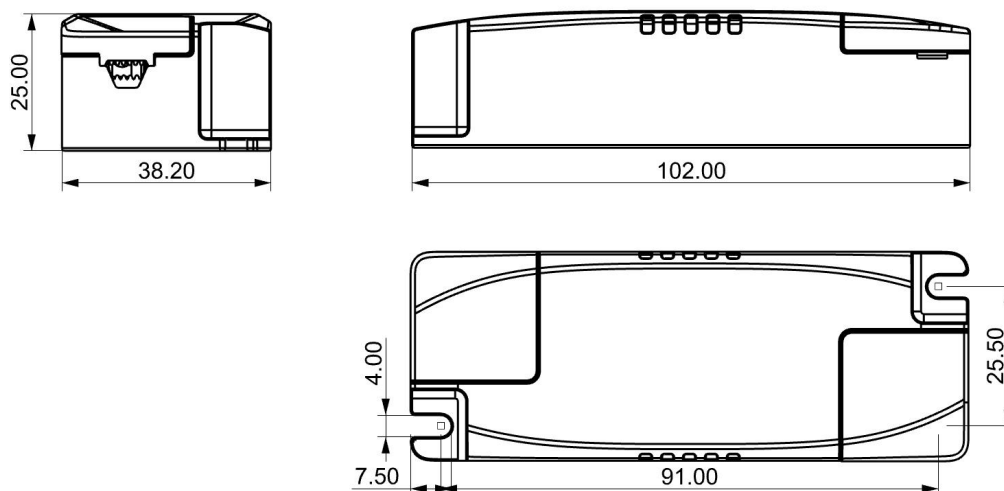
Remarks:

- 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.

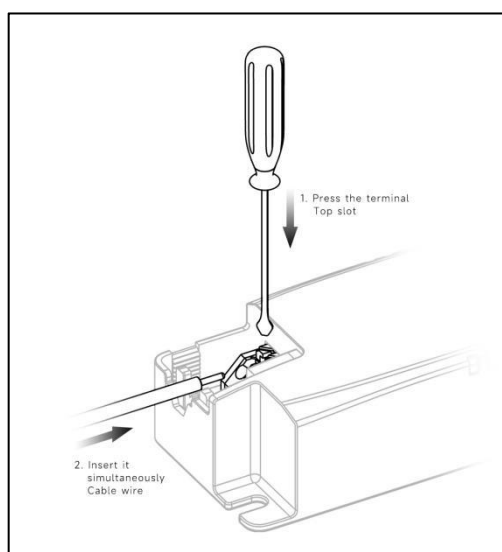
◆ Wiring diagram



◆ 2D diagram



Terminal



◆ Wiring & Connections

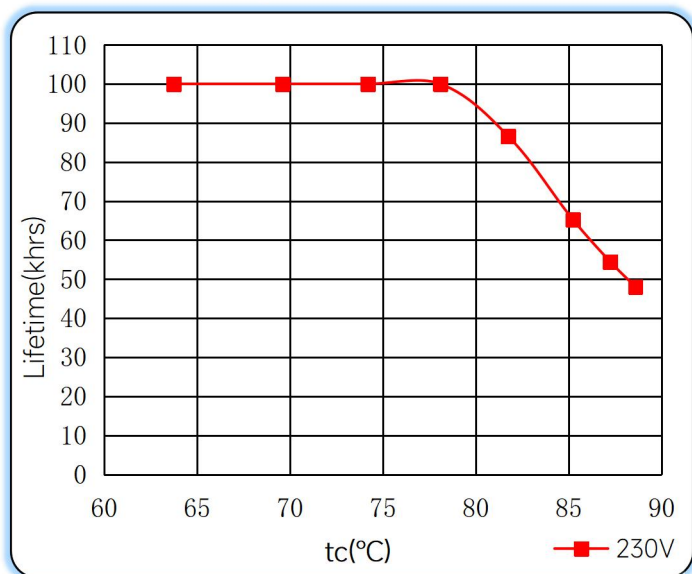
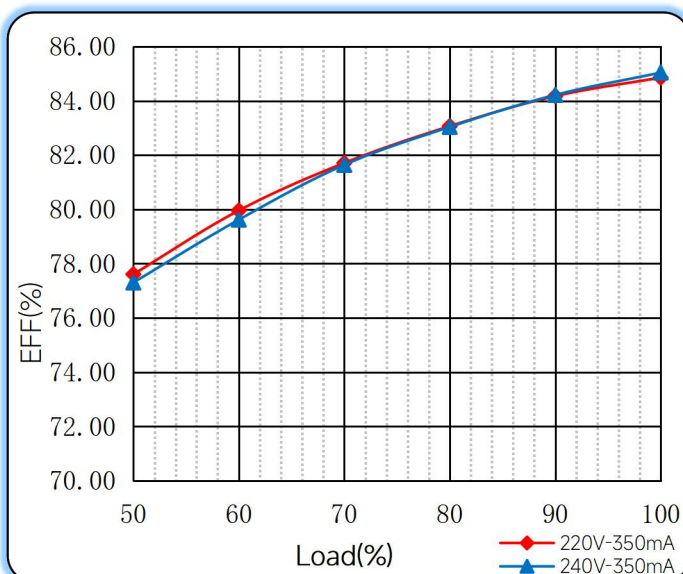
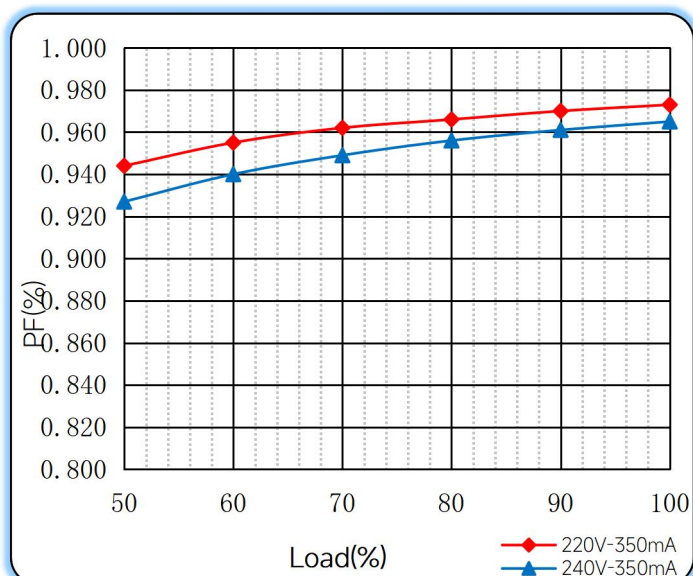
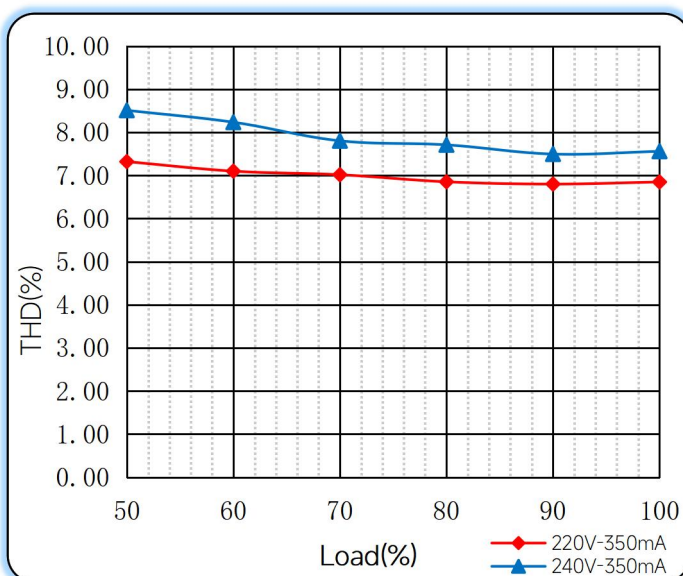
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Recommended wire

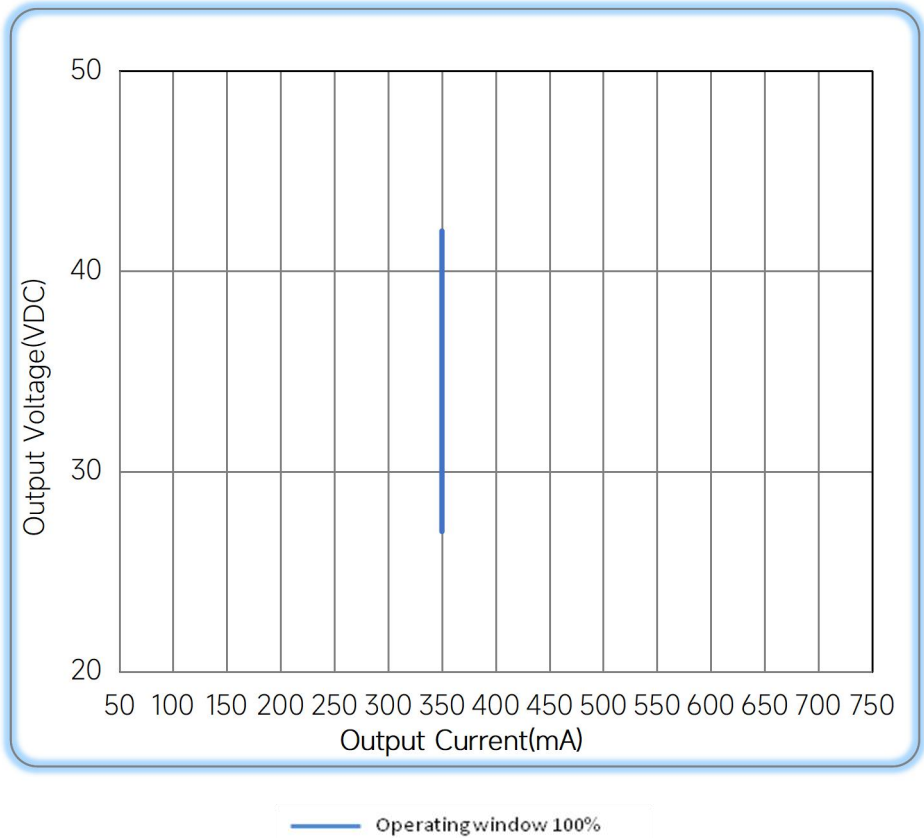
Wire cross-section	Wire type
2*0.5mm ²	H03VVH2-F 2core
2*0.75mm ²	H03VVH2-F 2core
1.5mm ²	CCC 08(RV-90)
16AWG(1.25mm ²)	UL1015

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

◆ Curve for LS-15-350 LI1 EXC, Io=350mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2024/01/09
Standards	GB 19510. 1 GB 19510. 14	GB/T 19510. 1 GB/T 19510. 213	B	2026/10/09

Remark:The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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