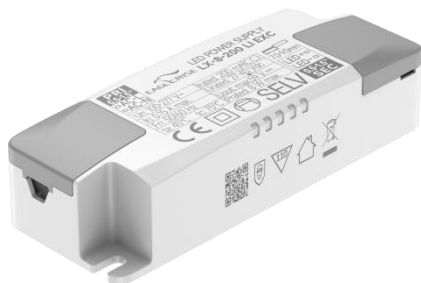


8W Constant Current power supply



■ Approve



Features

- For luminaires of protection Class II, SELV, Independent
- Input Voltage: 100-277VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95
- Efficiency: 59-76%
- 5 years warranty
- IP20

Applications

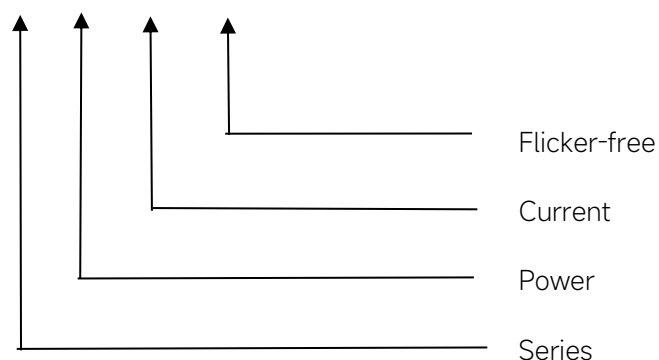
- LED panel, LED down light, LED spot light

◆ Description

LX-8-XXX LI EXC is a 8W constant current LED driver with 70 to 220mA output current. With it's compact dimensions from 92 x 36 x 25 mm. It is easy to integrate in LED panel, LED down light, LED spot light products. To ensure trouble-free operation, protection is provided against output short circuit, over load, over voltage and over temperature.

◆ Model code

LX-8-XXX LI EXC



◆ Specification

Output	Constant Current (mA)	70mA	100mA	120mA	150mA	160mA	180mA	200mA	220mA	
	Voltage Range(VDC)	27-42VDC							27-40VDC	
	Unload voltage Max.(VDC)	59V								
	Current Accuracy	±10%			±7%				±5%	
	Output HF current ripple(≥1KHz)	±5%								
	Output LF current ripple(≤120Hz)	±3%								
	SVM	≤0.4								
	P _{st}	≤1								
	Efficiency(100VAC,Typ.)	59%	66%	70%				75%		
	Efficiency(277VAC,Typ.)	59%	66%	71%				76%		
Input	Rated input voltage	100-277VAC								
	Range of input voltage	90-305VAC								
	Frequency(Hz)	50/60 Hz								
	Maximum voltage	305VAC@1 h maximum,unit might not operate in this abnormal condition								
	Displacement factor	≥0.7								
	Power Factor@full load,230V	0.9C			> 0.9				> 0.95	
	Input Current max (A)	0.065	0.09	0.1	0.125	0.135	0.15	0.15	0.14	
	Start-up time	< 0.5S								
	No Load Power	≤0.5W								
Protection	Over Load Protection	103-140%								
		YES/Auto Resume								
	Over Voltage Protection	59V								
		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	20%-90%RH								
	Tc	75°C								
	Storage Temperature	-20°C~+60°C								
	Life time	> 50,000h@Tc=70°C								
	Noise	≤25dB@10cm,100-240VAC								
Surface	Dimension	92X36X25 (LXWXH)mm								
	material	PC								
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;AS/NZS 61347- 1, AS/NZS 61347-2- 13;AS 61347.2.13;EN62384;								
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN55015, EN61000-3-2, EN61000-3-3, EN61547,EN 62493;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547								

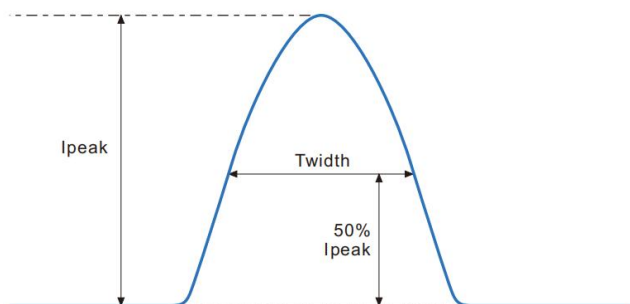
	ErP	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters not specially mentioned are measured at 100-277VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.Data are typical values obtained from test samples 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.	

◆ Model list

Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LX-8-70 LI EXC	70	27-42	59	2.9
2	LX-8-100 LI EXC	100			4.2
3	LX-8-120 LI EXC	120			5
4	LX-8-150 LI EXC	150			6.3
5	LX-8-160 LI EXC	160			6.7
6	LX-8-180 LI EXC	180			7.6
7	LX-8-200 LI EXC	200	27-40		8
8	LX-8-220 LI EXC	220			8.8

◆ Inrush Current

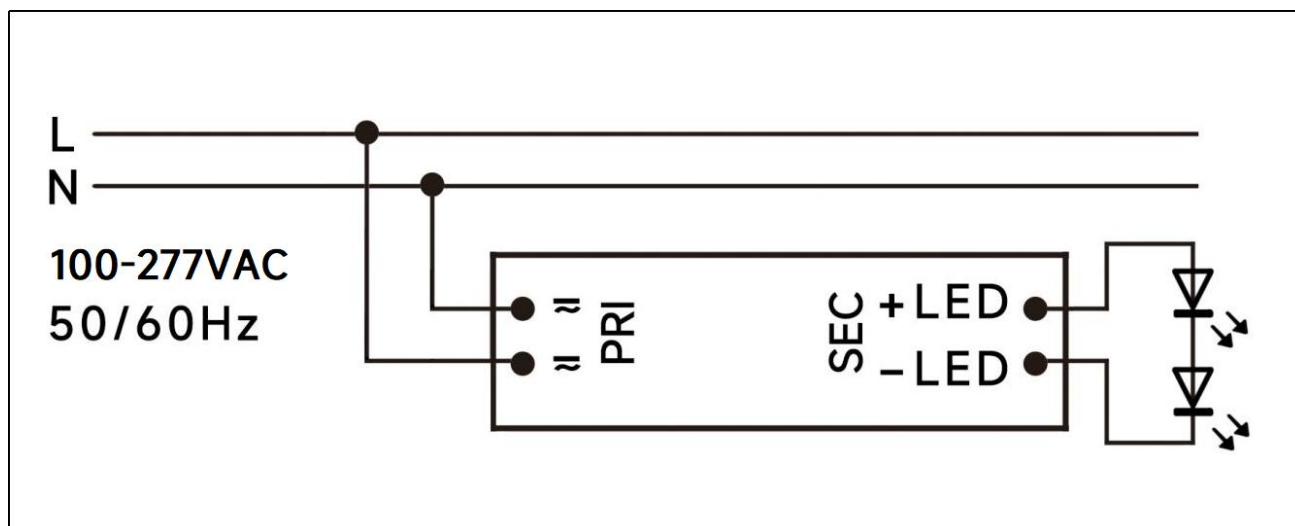
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
8.6A	70.4 μ s	57pcs	91pcs	114pcs	57pcs	91pcs	114pcs



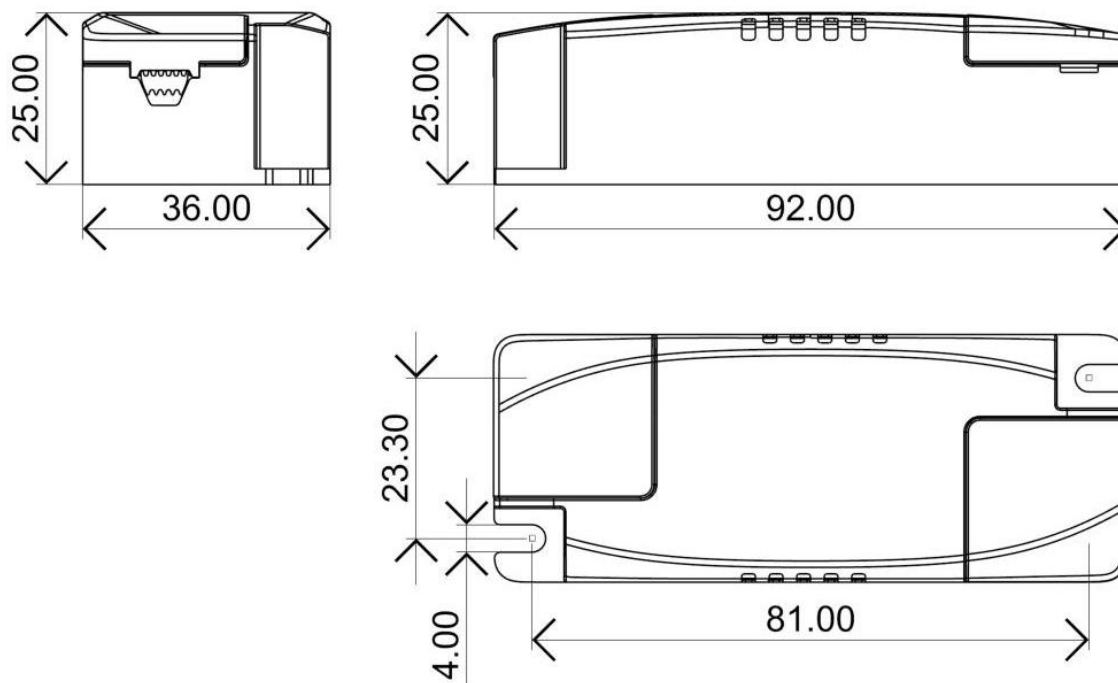
Remarks:

- 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.

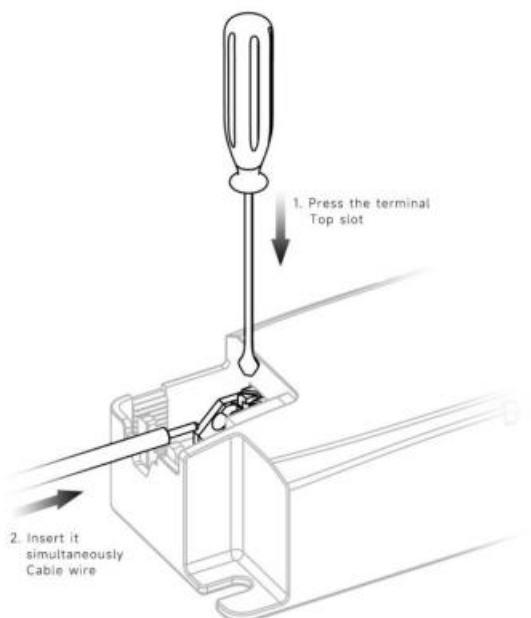
◆ Wiring diagram



◆ 2D diagram



Terminal



◆ Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ² (With side caps: 0.75...1.5 mm ²)
	Input wire gauge.	16...20 AWG (With side caps: 16...22 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

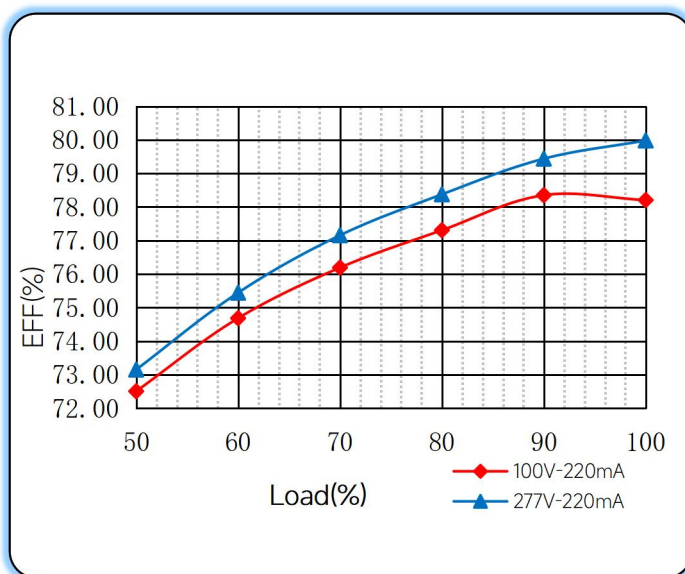
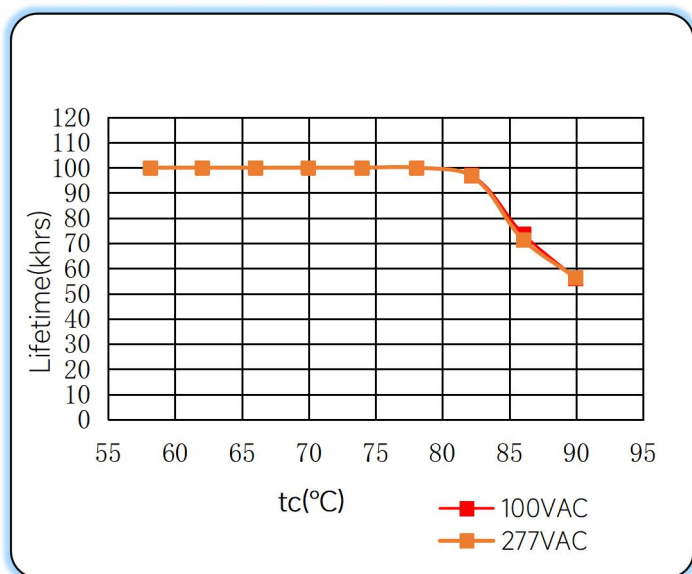
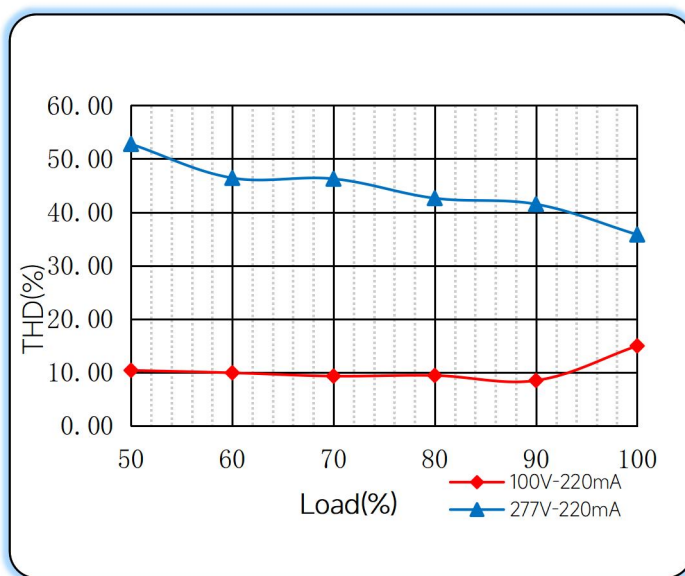
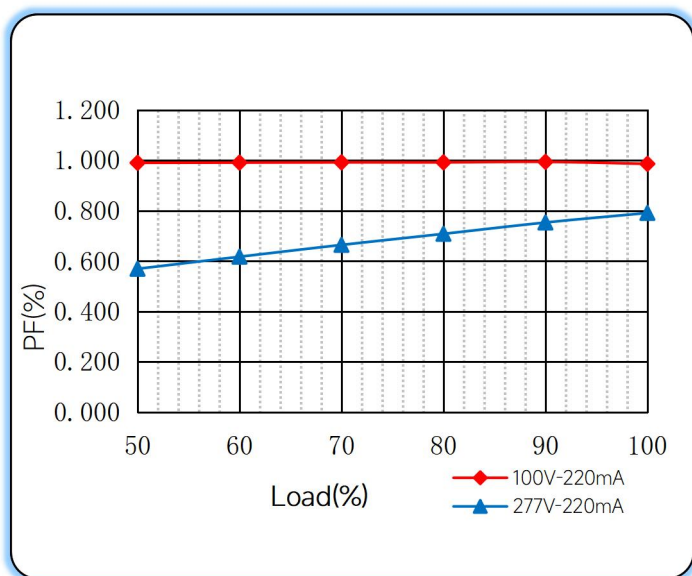
Wire cross-section	Wire type
2*0.5mm ²	H03VVH2-F 2core
2*0.75mm ²	H03VVH2-F 2core
1.5mm ²	CCC 08(RV-90)
16AWG(1.25mm ²)	UL1015

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

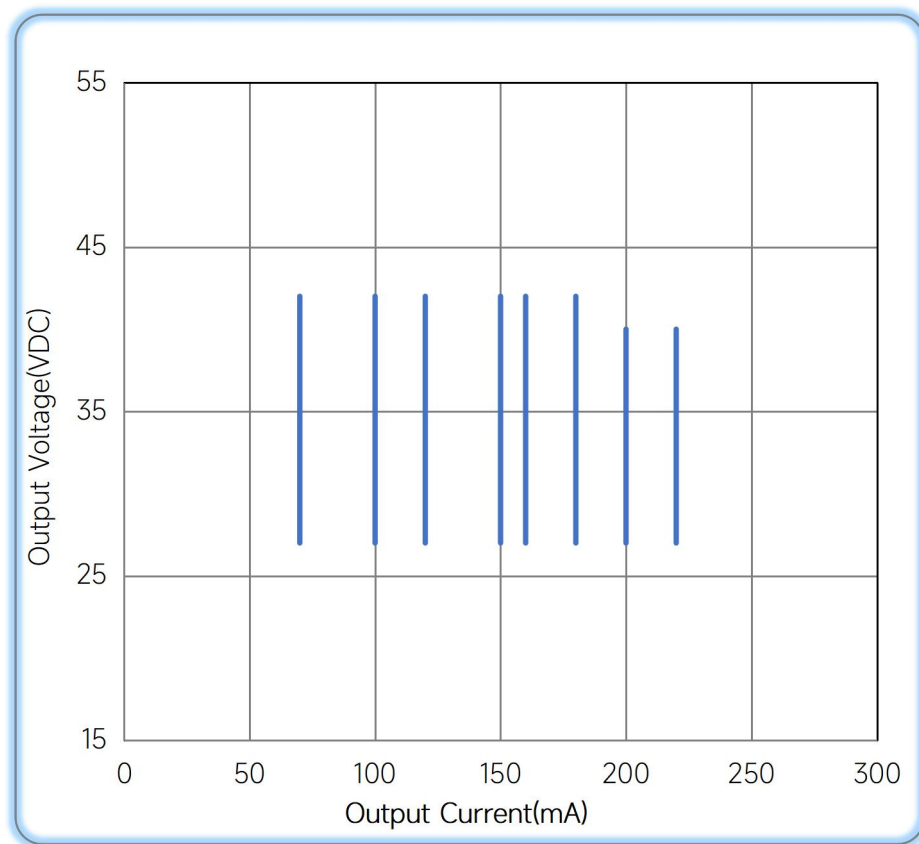
◆ Packaging

Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LX-8-XXX LI EXC	92X36X25	0.047	370X275X215	180	8.46	9.1

◆ Curve for LX-8-220 LI EXC, $I_o=220\text{mA}$

Lifetime vs. Temperature Curve
Efficiency vs. Load

Power Factor Characteristics
THD vs. Load


◆ Operating window



— Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2024/11/08
Efficiency	68-76%	59-76%	B	2025/11/24
Over Load Protection	103-130%	103-140%	C	2025/12/04

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

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