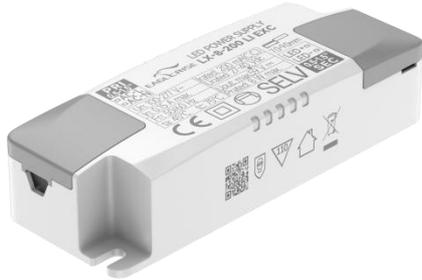


8W Constant Current power supply



■ 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

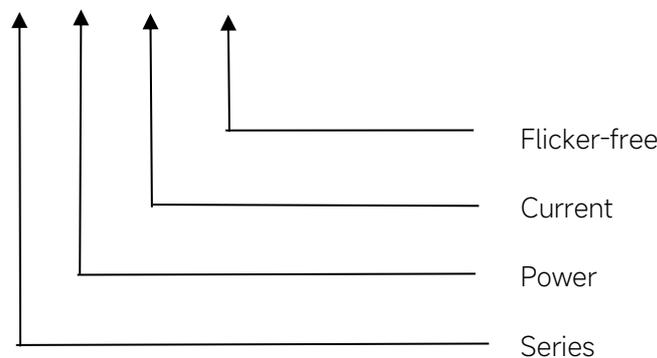
- LED panel, LED down light
LED spot light

◆ 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

	Constant Current (mA)	70mA	100mA	120mA	150mA	160mA	180mA	200mA	220mA	
Output	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	0.15	
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								

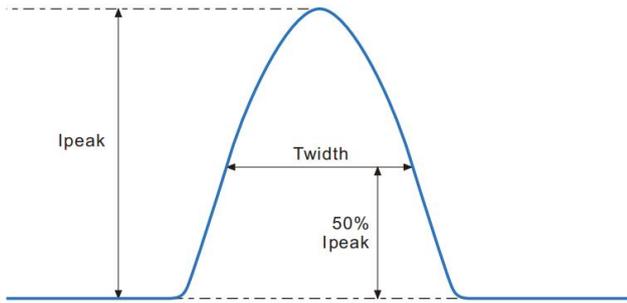
	ErP	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	<p>1.All parameters not specially mentioned are measured at 100-277VAC input , full load and 25°C of ambient temperature.</p> <p>2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.</p> <p>3.Data are typical values obtained from test samples.</p> <p>4.The over-temperature protection of the product is provided by the IC.</p> <p>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.</p>	

◆ 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

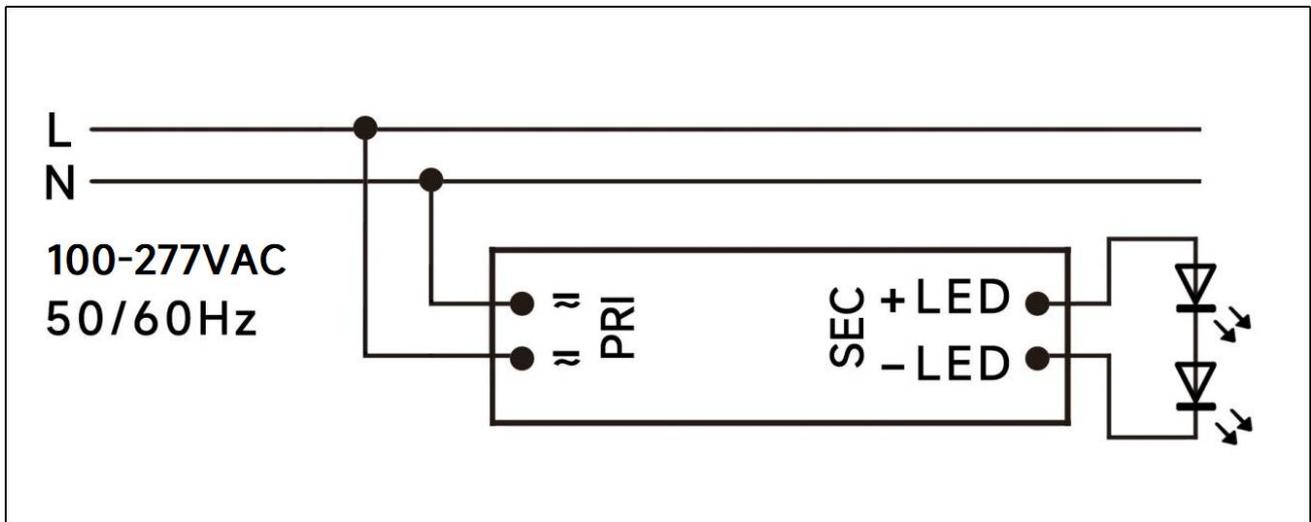
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
8.6A	70.4 μ s	57pcs	91pcs	114pcs	57pcs	91pcs	114pcs



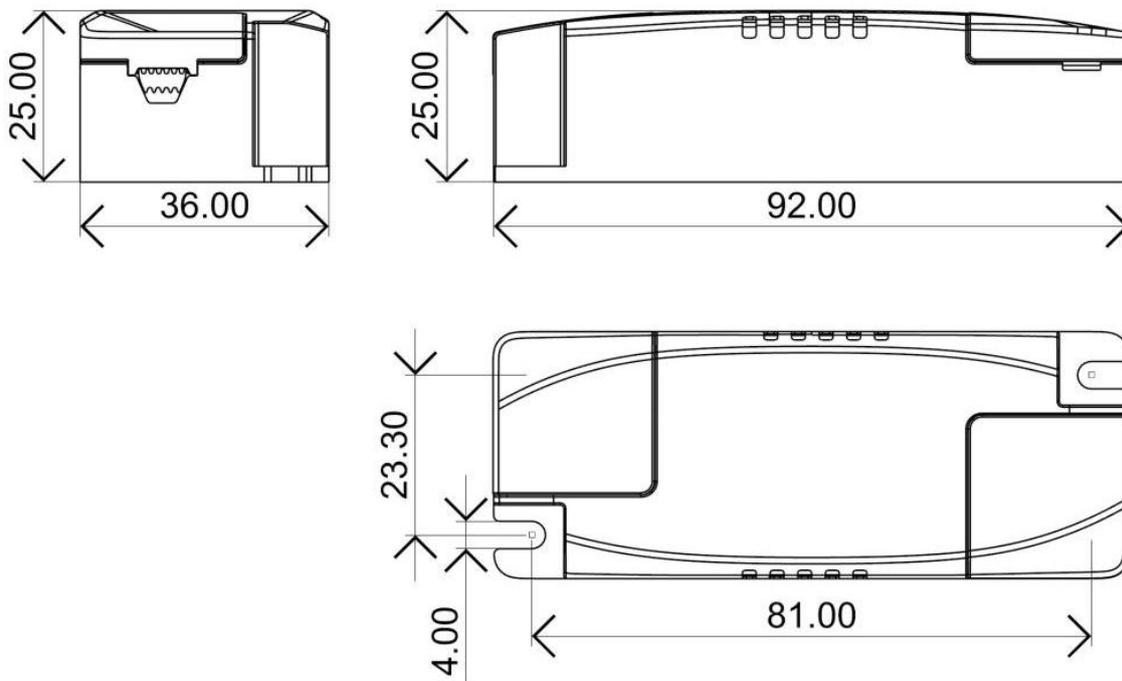
Remarks:

- 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.

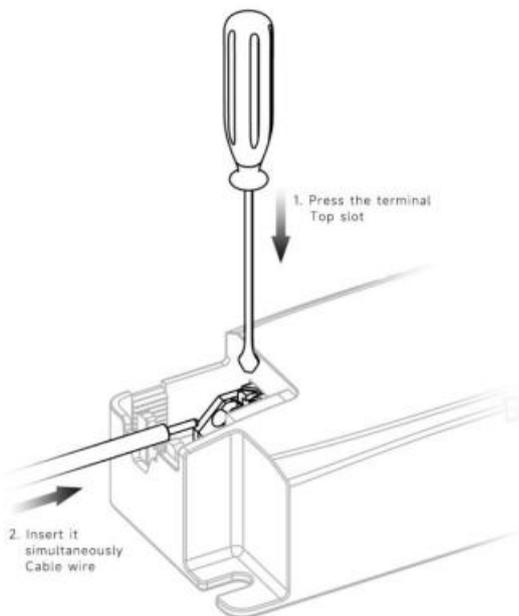
◆ Wiring diagram



◆ 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

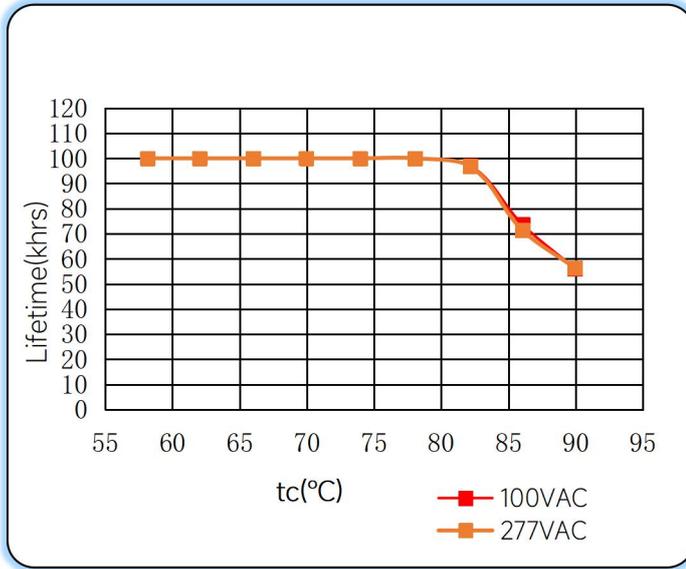
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Packaging

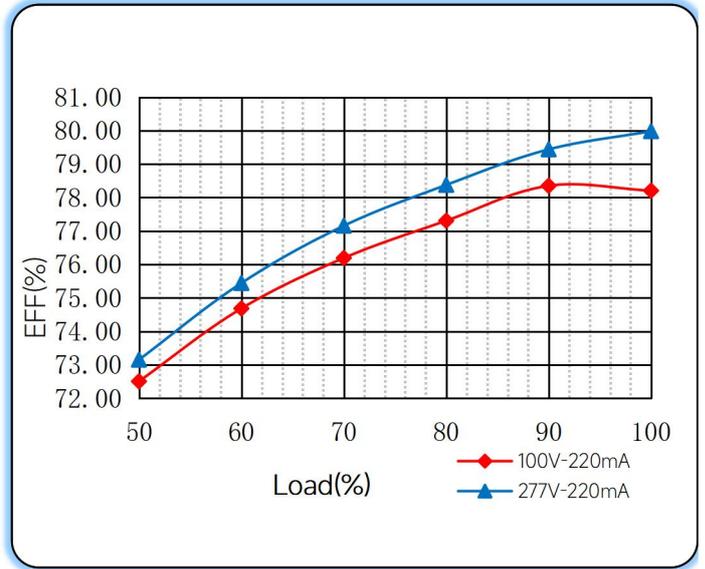
Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LX-8-XXX LI EXC	92X36X25	0.047	370X275X215	180	8.46	9.1

◆ **Curve for LX-8-220 LI EXC, I_o=220mA**

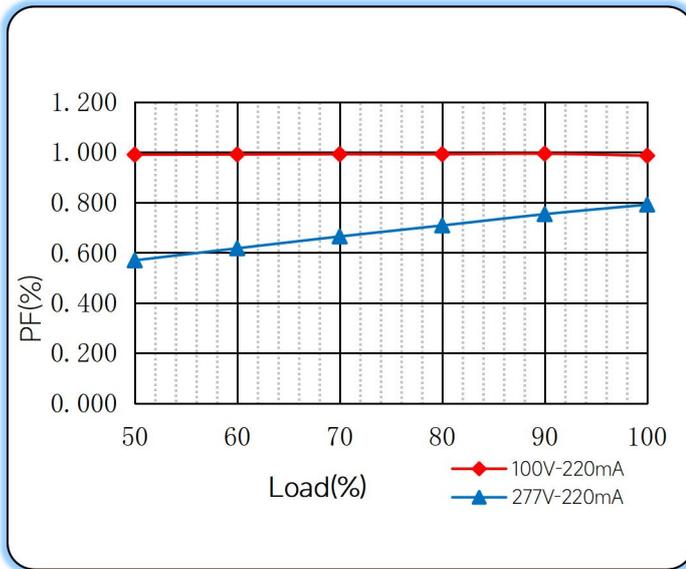
Lifetime vs. Temperature Curve



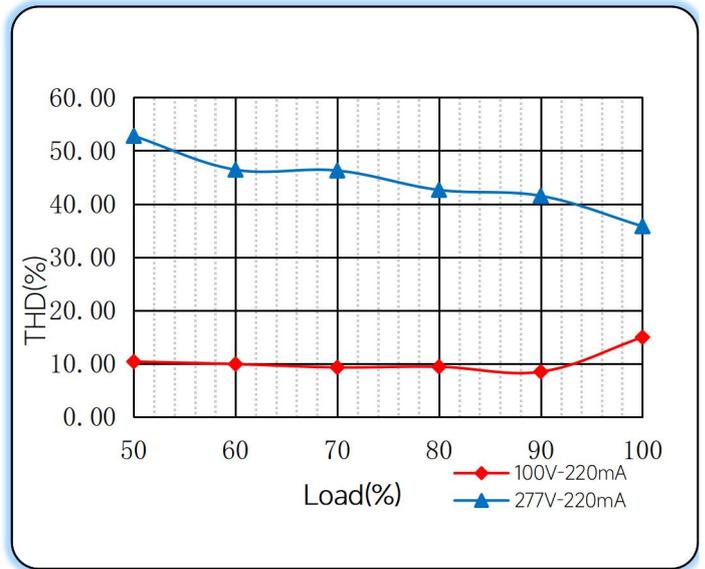
Efficiency vs. Load



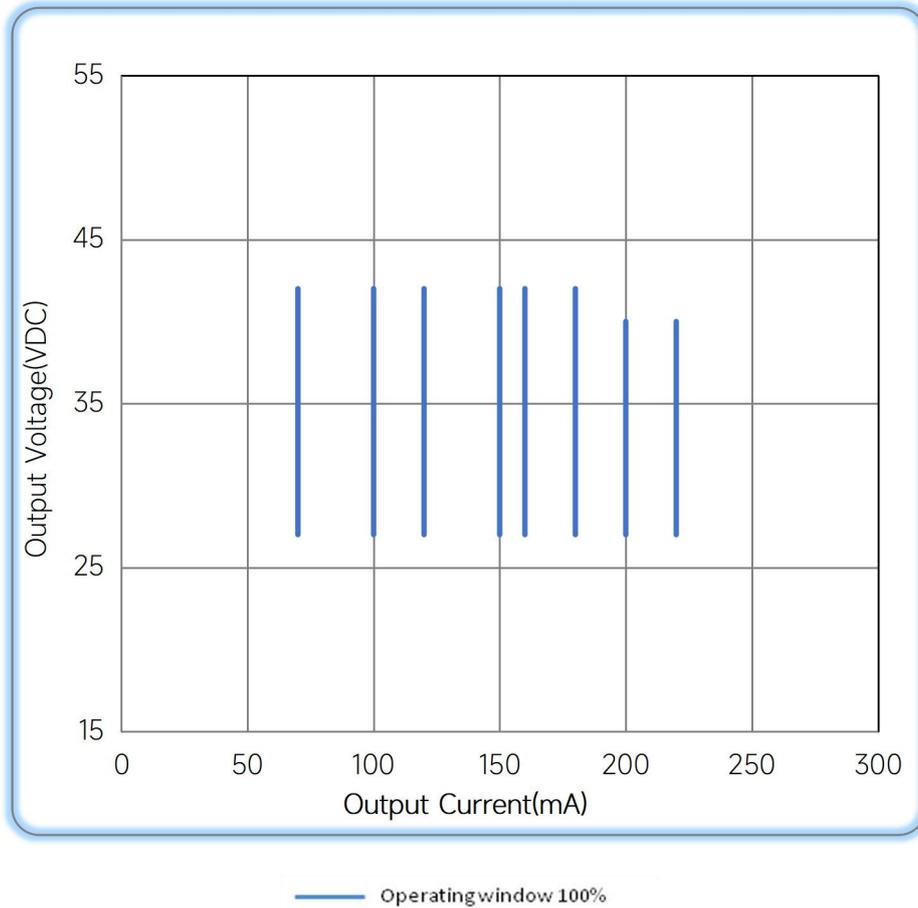
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2024/11/08
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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