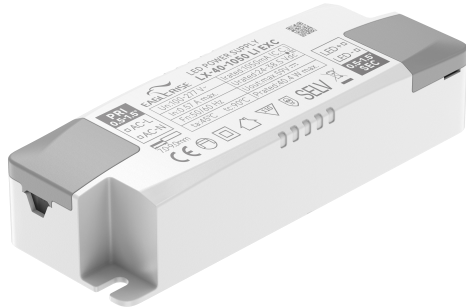


40W Constant Current power supply



■ Approve



Features

- Class II, SELV, independent
- Input Voltage 100-277VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor ≥ 0.9 @ full load
- Efficiency: 84% @ 100VAC, 89% @ 277VAC

Applications

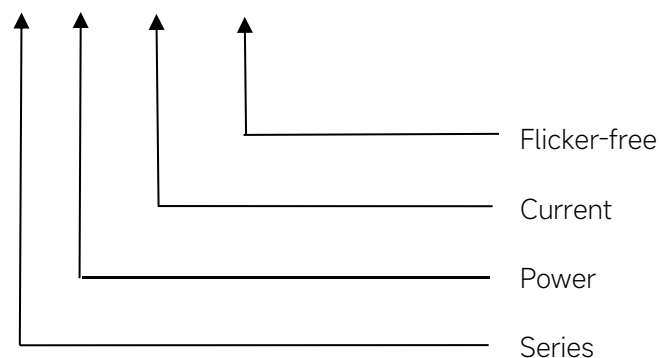
- LED panel, LED down light
- LED spot light

◆ Description

LX-40-XXX LI EXC is a 40W constant current LED driver that operates from 100-277Vac input with 600 to 1050mA output current. With it's compact dimensions from 135 x 41.2 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

LX-40-XXX LI EXC



◆ Specification

Output	Constant Current (mA)	600	650	700	750	800	850	900	950	1000	1050
	Voltage Range(VDC)	24-42								24-40	24-38.5
	Unload voltage Max.(VDC))	59V									
	Current Accuracy	±5%@100-277VAC									
	Output HF current ripple(≥1KHz)	±5%									
	Output LF current ripple(≤120Hz)	±3%									
	SVM	≤0.4									
	P _{st}	≤1									
	Efficiency(Typ.)	84%@100VAC, 89%@277VAC									
Input	Rated input voltage	100-277VAC									
	Range of input voltage	90-305VAC									
	Maximum voltage	380VAC@1 h maximum,unit might not operate in this abnormal condition									
	Frequency(Hz)	50/60 Hz									
	Displacement factor(Typ.)	≥0.9@full load									
	Power Factor	≥0.9@full load									
	Input Current max	0.57A									
	Start-up time	< 0.5S									
	No Load Power	≤0.5W									
	THD (Typ.)	< 15%							< 10%		
Protection	Over Load Protection	103-130%									
		YES/Auto Resume									
	Over Voltage Protection	59VDC									
		YES/Auto Resume									
capability	Short circuit Protection	YES/Auto Resume									
	Surge capability (L-N)	1KV									
Environment	Surge capability (L/N-Ground)	NA									
	Operating Temperature	-20℃~~+45℃									
	Humidity	20%-90%RH									
	Tc	80℃					85℃			90℃	
	Storage Temperature	-30℃~~+80℃									
	Life time	> 50000h@Tc=80℃									
	Noise	≤20dB(A)@10cm									
Surface	Dimension	135x41.2x25mm									
	material	PC									
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2-13;EN62384;UL 8750; UI1310									
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547:EN61000-4-5									

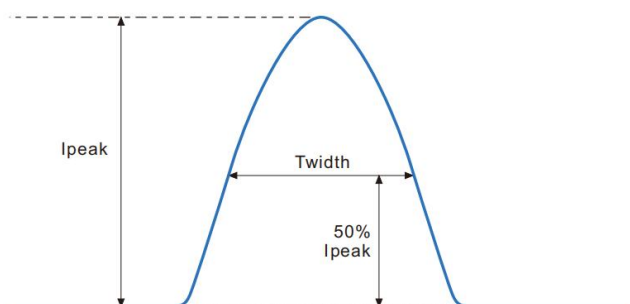
	Energy Efficiency	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters not specially mentioned are measured at 100-277VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with 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	Input			Output			
		Voltage (VAC)	Current (A)	Frequency (Hz)	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LX-40-600 LI EXC	100-277	0.57A	50/60	600	24-42	59	25.2
2	LX-40-650 LI EXC				650			27.3
3	LX-40-700 LI EXC				700			29.4
4	LX-40-750 LI EXC				750			31.5
5	LX-40-800 LI EXC				800			33.6
6	LX-40-850 LI EXC				850			35.7
7	LX-40-900 LI EXC				900			37.8
8	LX-40-950 LI EXC				950			39.9
9	LX-40-1000 LI EXC				1000	24-40		40
10	LX-40-1050 LI EXC				1050	24-38.5		40.4

◆ Inrush Current

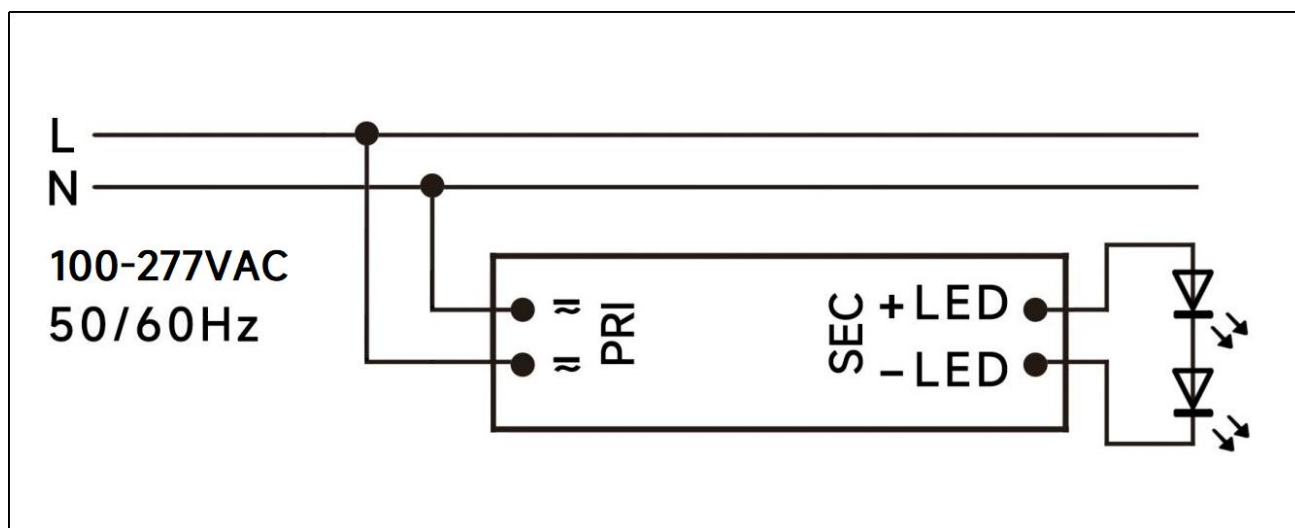
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
40.6A	188 μ s	10pcs	17pcs	21pcs	14pcs	22pcs	28pcs



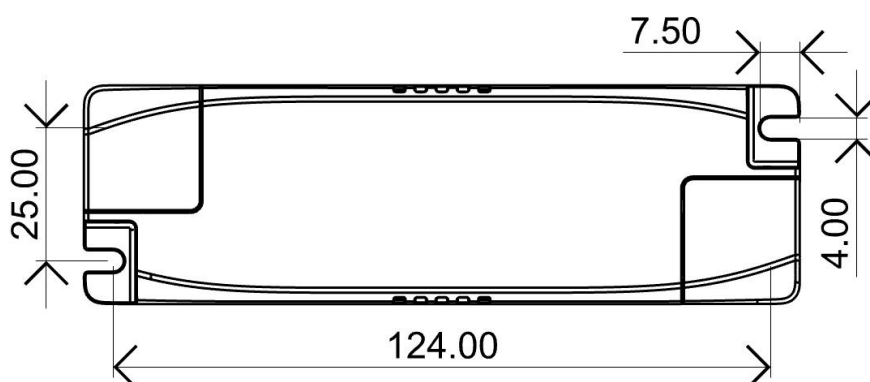
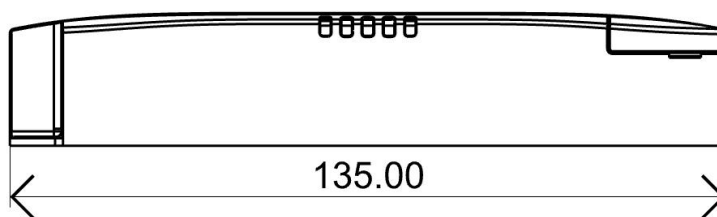
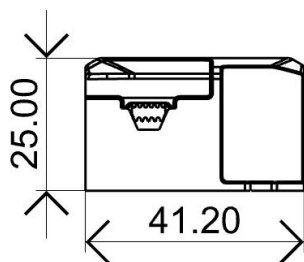
Remarks:

- 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.

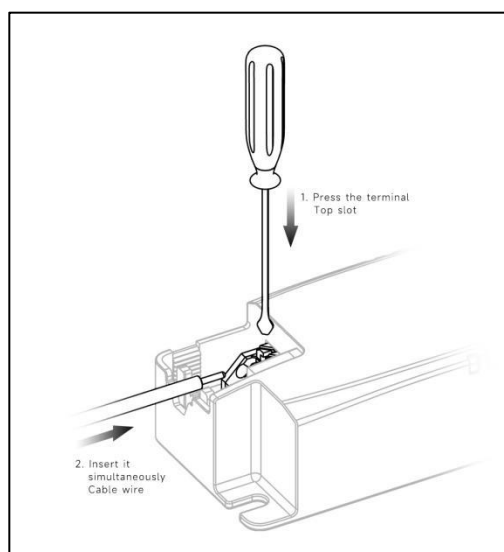
◆ Wiring diagram



◆ 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

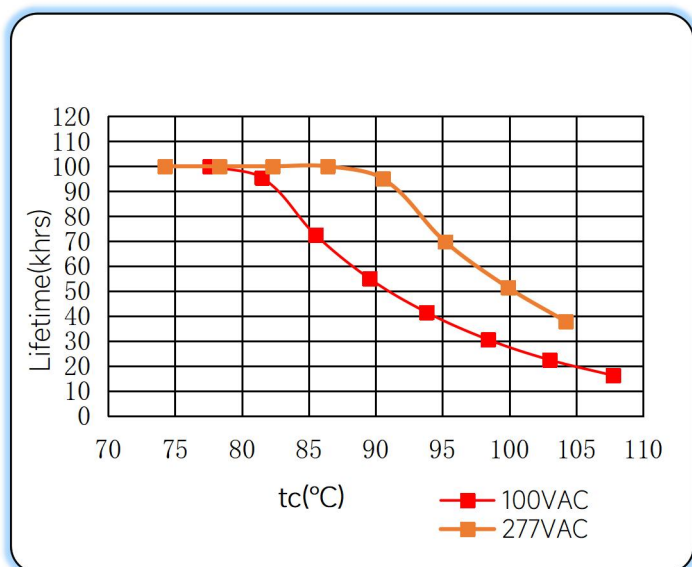
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Packaging

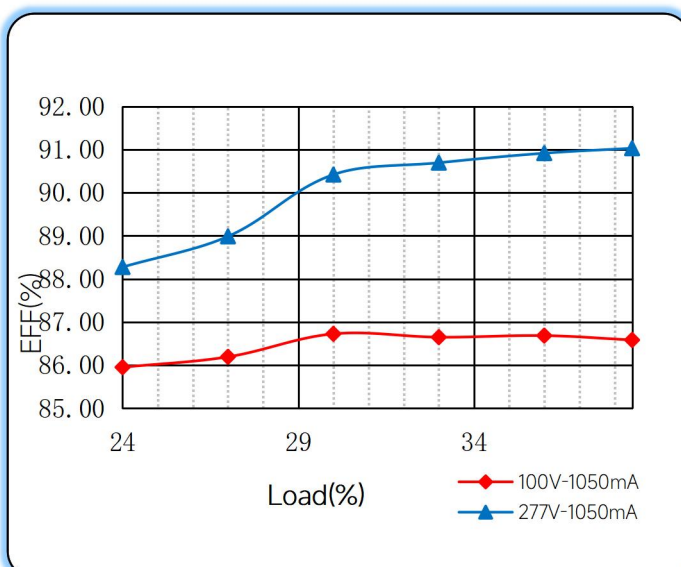
Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LX-40-XXX LI EXC	135 x 41.2 x 25	0.104	370 x 277 x 215	108	11.2	11.85

◆ Curve for LX-40-XXX LI EXC, I_o=1050mA

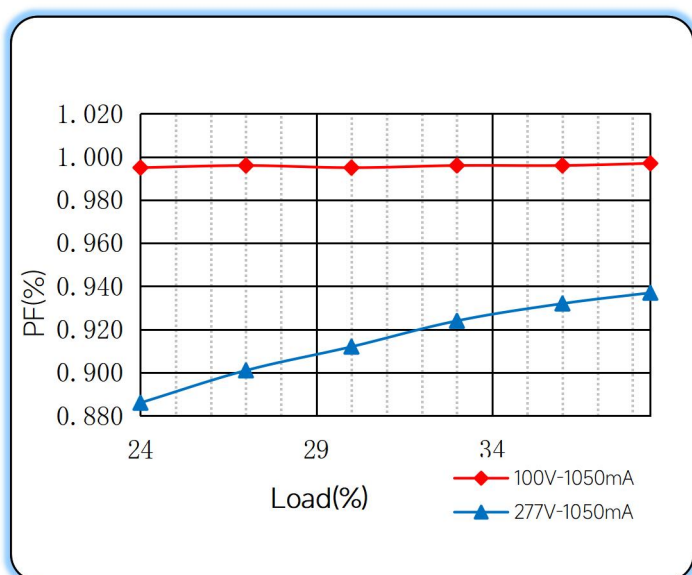
Lifetime vs. Temperature Curve



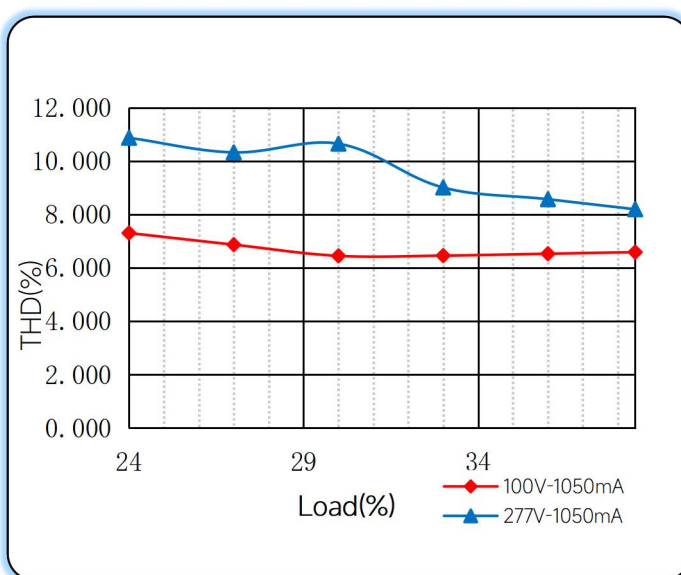
Efficiency vs. Load



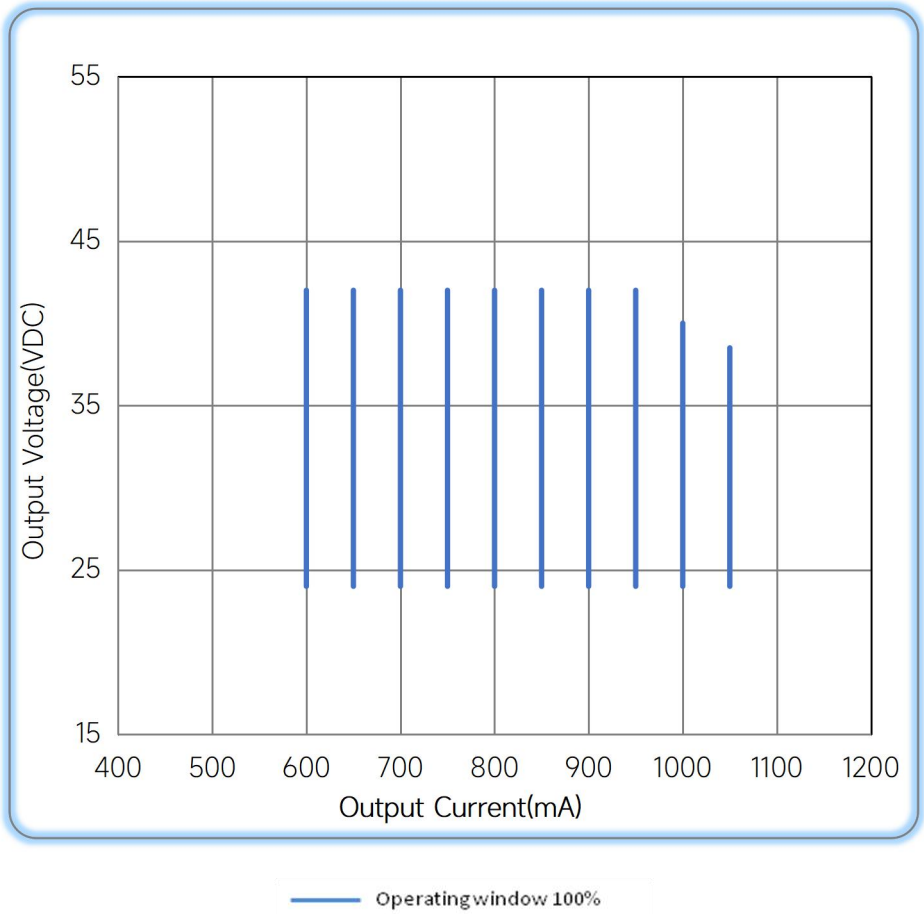
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2025/01/09
Update			B	2025/12/24

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

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