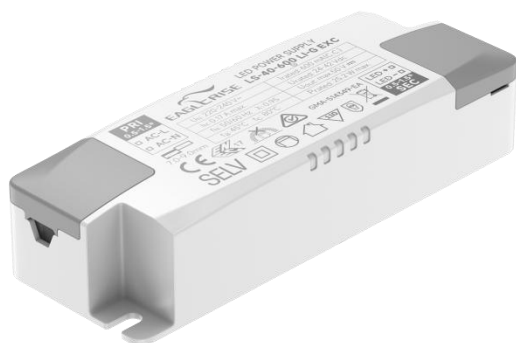


40W Constant Current power supply



Features

- Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.95
- Efficiency: 89%
- 5 years warranty
- IP20

Applications

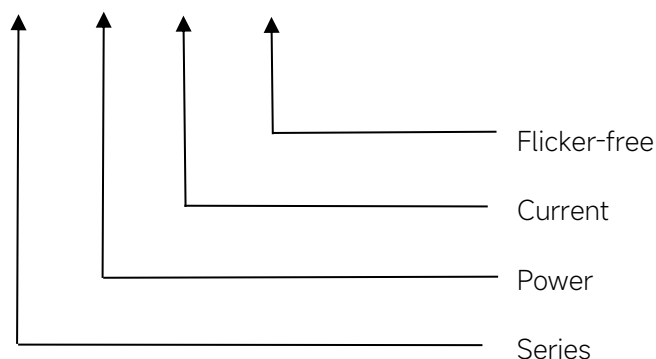
- LED panel, LED down light
- LED spot light

◆ Description

LS-40-XXX LI-G EXC is a 40W constant current LED driver with 600 to 1050mA output current. With its compact dimensions from 116 x 41 x 26mm. It is easy to integrate in LED Panel, spot and down lights product. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

LS-40-XXX LI-G 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.	50VDC									52VDC	
	Current Accuracy	±5%										
	Output HF current ripple(≥1KHz)	±5%										
	Output LF current ripple(≤120Hz)	±5%										
	SVM	≤0.4										
	Pst	≤1										
	Efficiency(Typ.)	89%										
Input	Rated input voltage	220-240VAC										
	Range of input voltage	176-264VAC										
	Frequency(Hz)	50/60 Hz										
	Displacement factor	≥0.9										
	Power Factor	0.95										
	Input Current max (mA)	170	190	200	220	230	250	260	270	270	290	
	Start-up time	< 0.5S										
	No Load Power	≤0.5W										
	Standby Power	≤0.5W										
Protection	THD (Typ.)	<12%				<10%				<5%		
	Over Load Protection	103-120%										
		YES/Auto Resume										
	Over Voltage Protection	50VDC									52VDC	
		YES/Auto Resume										
	Short circuit Protection	YES/Auto Resume										
	Over Temperature Protection	YES/Auto Resume										
	Environment	Operating Temperature	-20℃~-+45℃									
		Humidity	20%-90%RH									
Tc		80℃										
Storage Temperature		-25℃~-+60℃										
Life time		> 50000h@Tc=75℃										
Surface	Dimension	116X41X26(LXWXH)mm										
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN62384;AS/NZS 61347- 1, AS/NZS 61347-2- 13										
	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;AS/NZS 61347.1,AS 61347.2.13										
	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.	

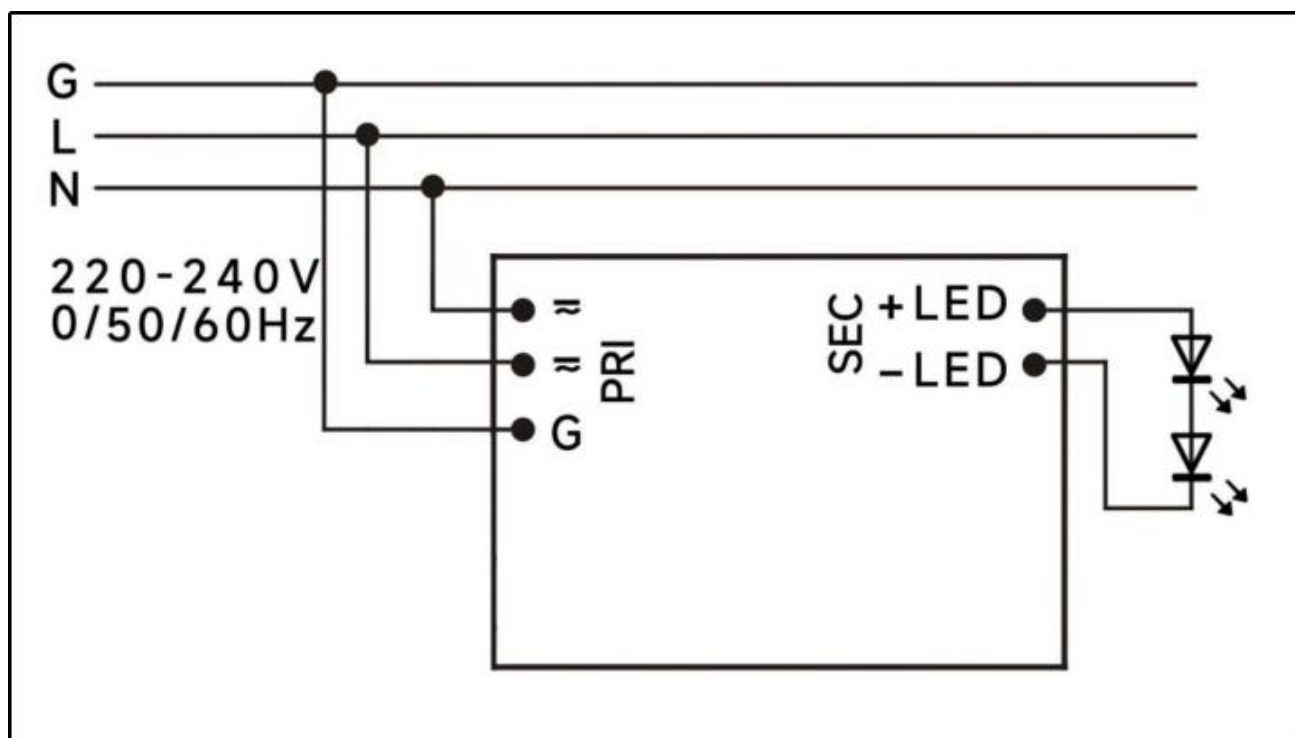
◆ Model list

Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-40-600 LI-G EXC	600	24-42	50	25.2
2	LS-40-650 LI-G EXC	650			27.3
3	LS-40-700 LI-G EXC	700			29.4
4	LS-40-750 LI-G EXC	750			31.5
5	LS-40-800 LI-G EXC	800			33.6
6	LS-40-850 LI-G EXC	850			35.7
7	LS-40-900 LI-G EXC	900			37.8
8	LS-40-950 LI-G EXC	950			39.9
9	LS-40-1000 LI-G EXC	1000	24-40	52	40
10	LS-40-1050 LI-G EXC	1050	24-38.5	52	40

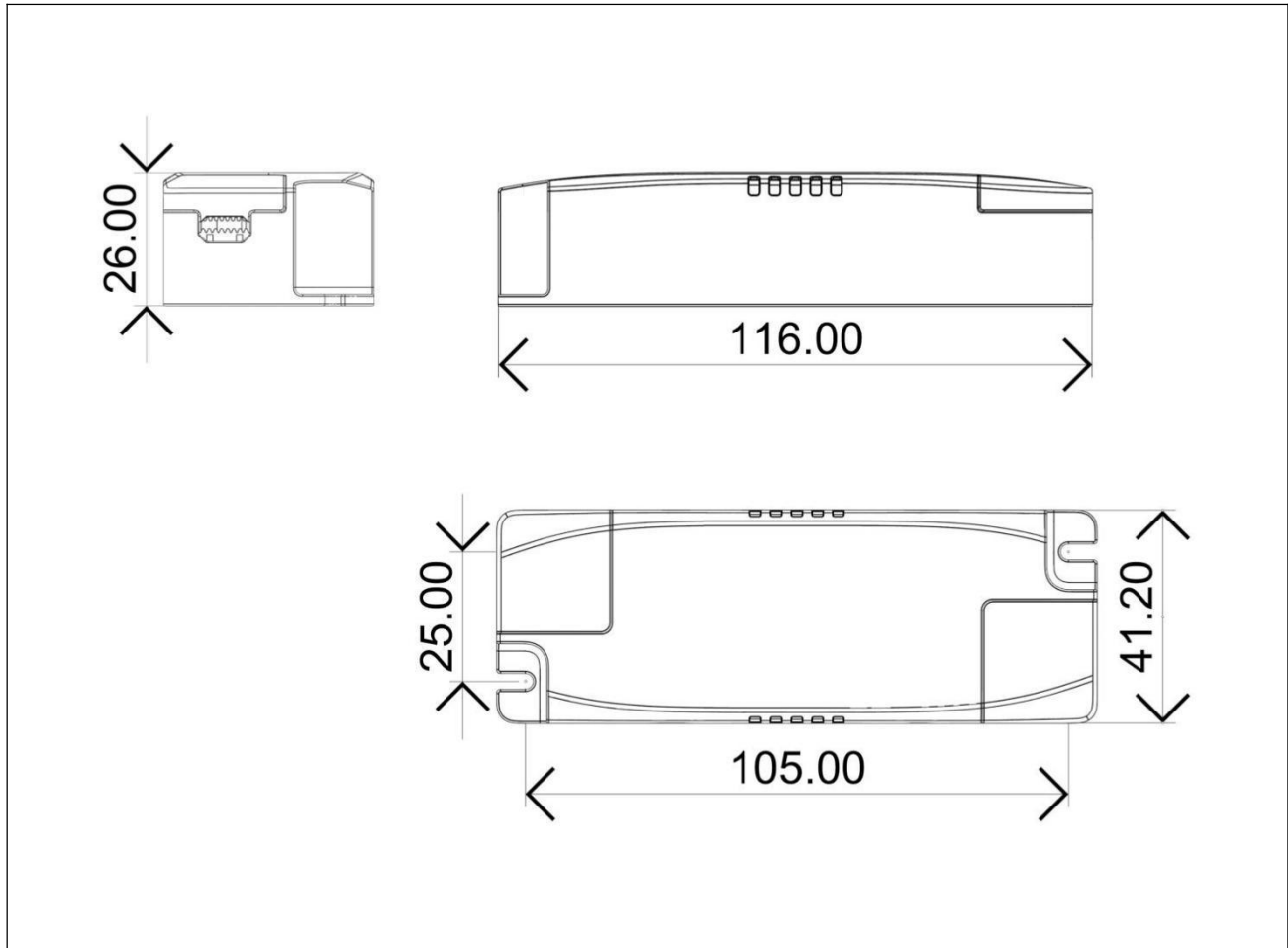
◆ Circuit Breaker

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
24.9A	142μs	23pcs	37pcs	47pcs	36pcs	58pcs	72pcs

◆ Wiring diagram



◆ 2D diagram

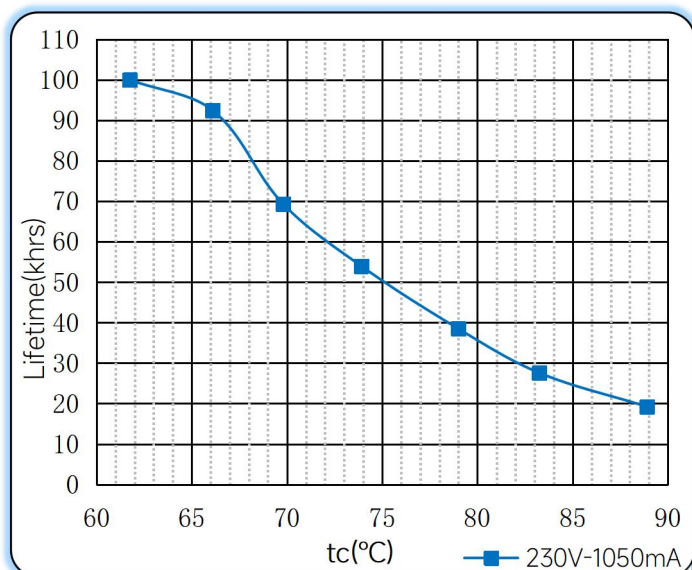
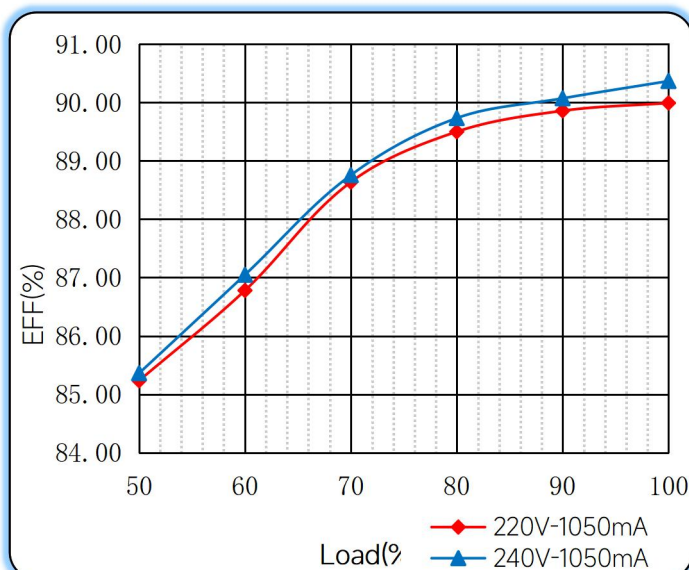
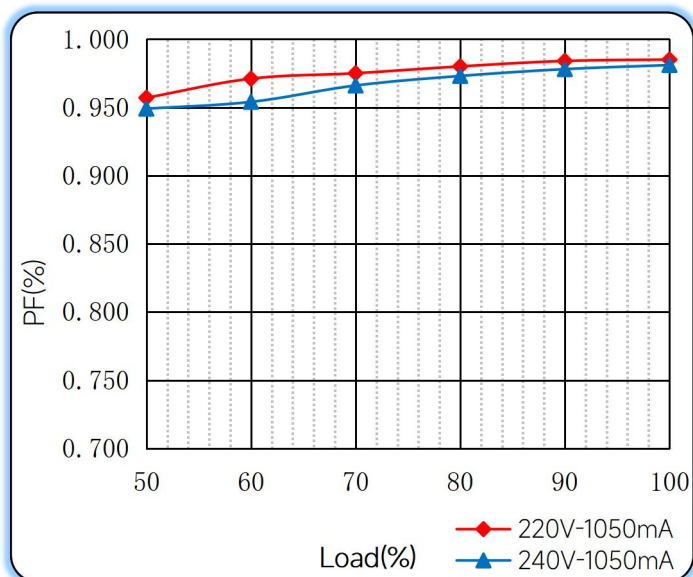
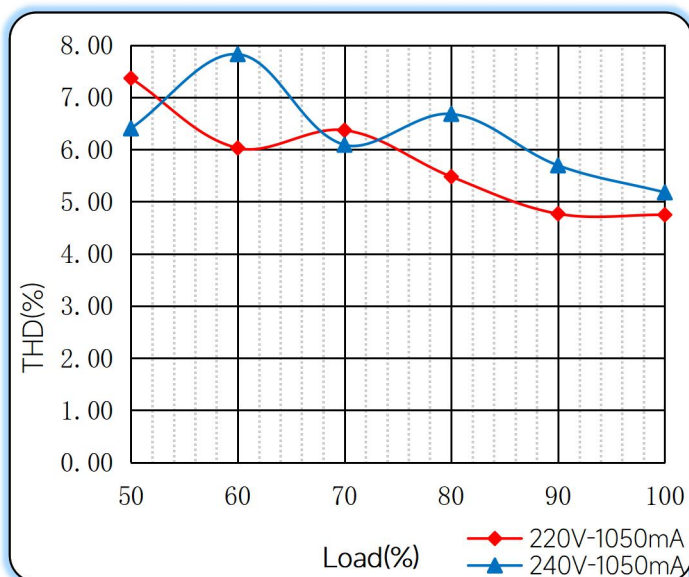


◆ Wiring & Connections

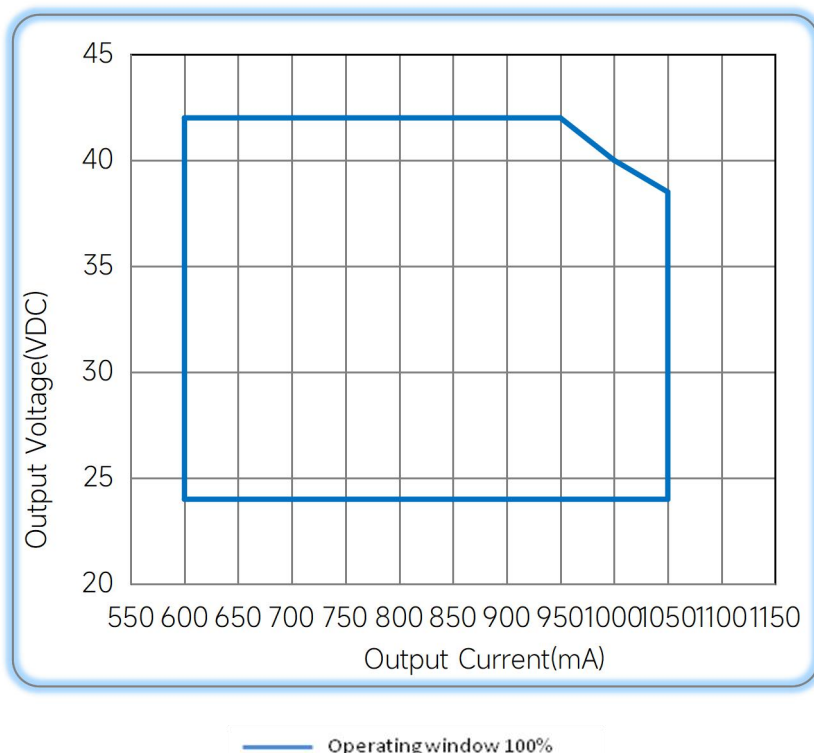
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

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

◆ Curve for LS-40-1050 LI-G EXC, $I_o=1050\text{mA}$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/06/14

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

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EAGLERISE



Manual