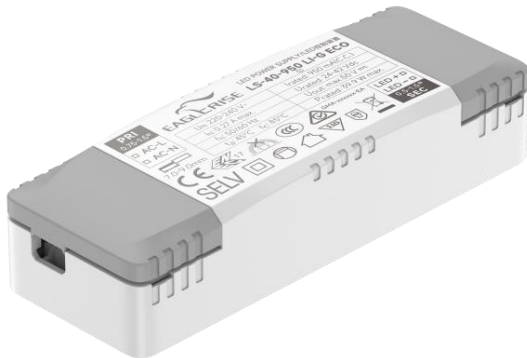


40W Constant Current power supply



Features

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

Applications

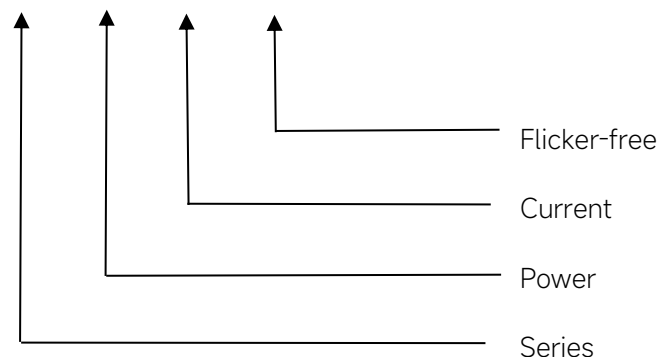
- LED panel, LED down light
- LED spot light

◆ Description

LS-40-XXX LI-G ECO 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 ECO



◆ 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(≤	±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									
Environment	Over Temperature Protection	YES/Auto Resume									
	Operating Temperature	-20°C~+45°C									
	Humidity	20%-90%RH									
	Tc	80°C									
	Storage Temperature	-25°C~+60°C									
Surface	Life time	> 50000h@Tc=75°C									
	Dimension	116X41X26(LXWXH)mm									
Standards	EN 61547;EN 61347-1,EN 61347-2-13;IEC 61347-1,IEC 61347-2-13;GB 19510.1,GB 19510.14; GB/T 17743,GB 17625.1;EN 62384;EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3										
Others	ErP	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

Stock code : 002922

2 / 7

Article information 2023/ 02/03

REV: B

lighting.eaglerise.com

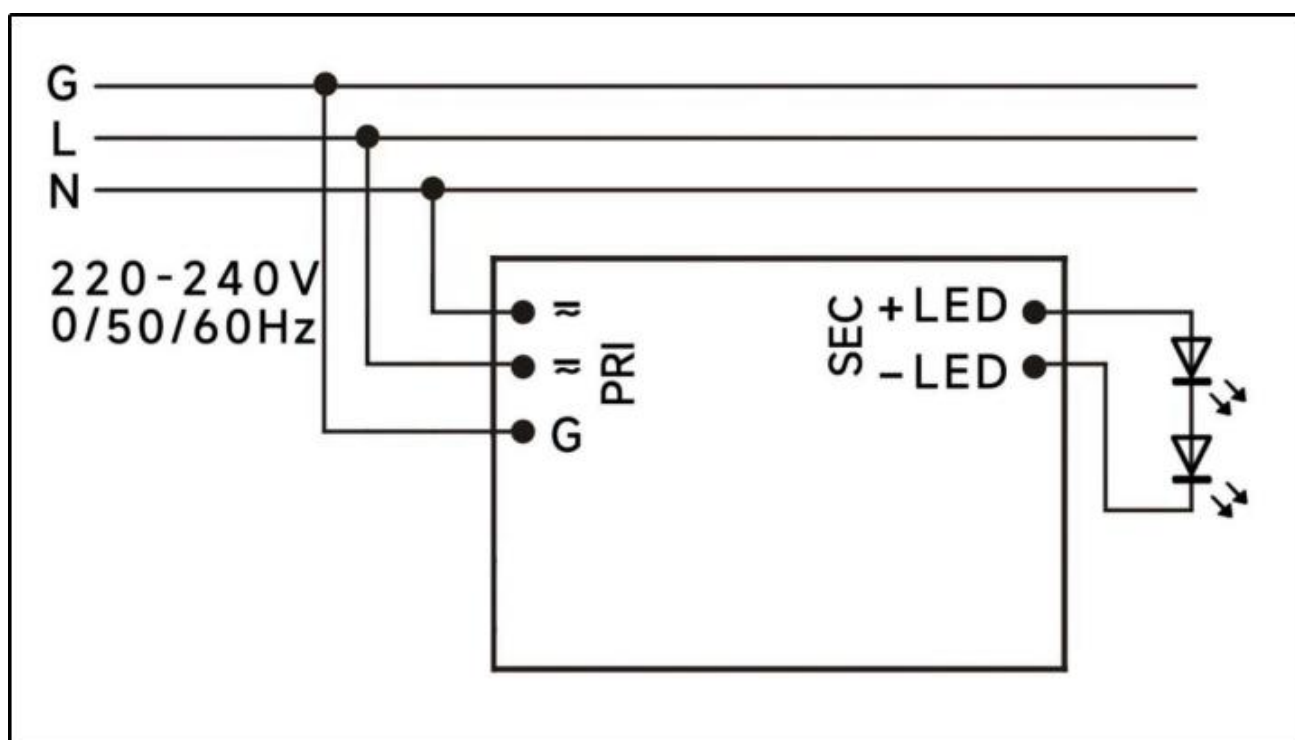
DZ-YF3-02-09A

Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-40-600 LI-G ECO	600	24-42	50	25.2
2	LS-40-650 LI-G ECO	650			27.3
3	LS-40-700 LI-G ECO	700			29.4
4	LS-40-750 LI-G ECO	750			31.5
5	LS-40-800 LI-G ECO	800			33.6
6	LS-40-850 LI-G ECO	850			35.7
7	LS-40-900 LI-G ECO	900			37.8
8	LS-40-950 LI-G ECO	950			39.9
9	LS-40-1000 LI-G ECO	1000	24-40	52	40
10	LS-40-1050 LI-G ECO	1050	24-38.5	52	40.4

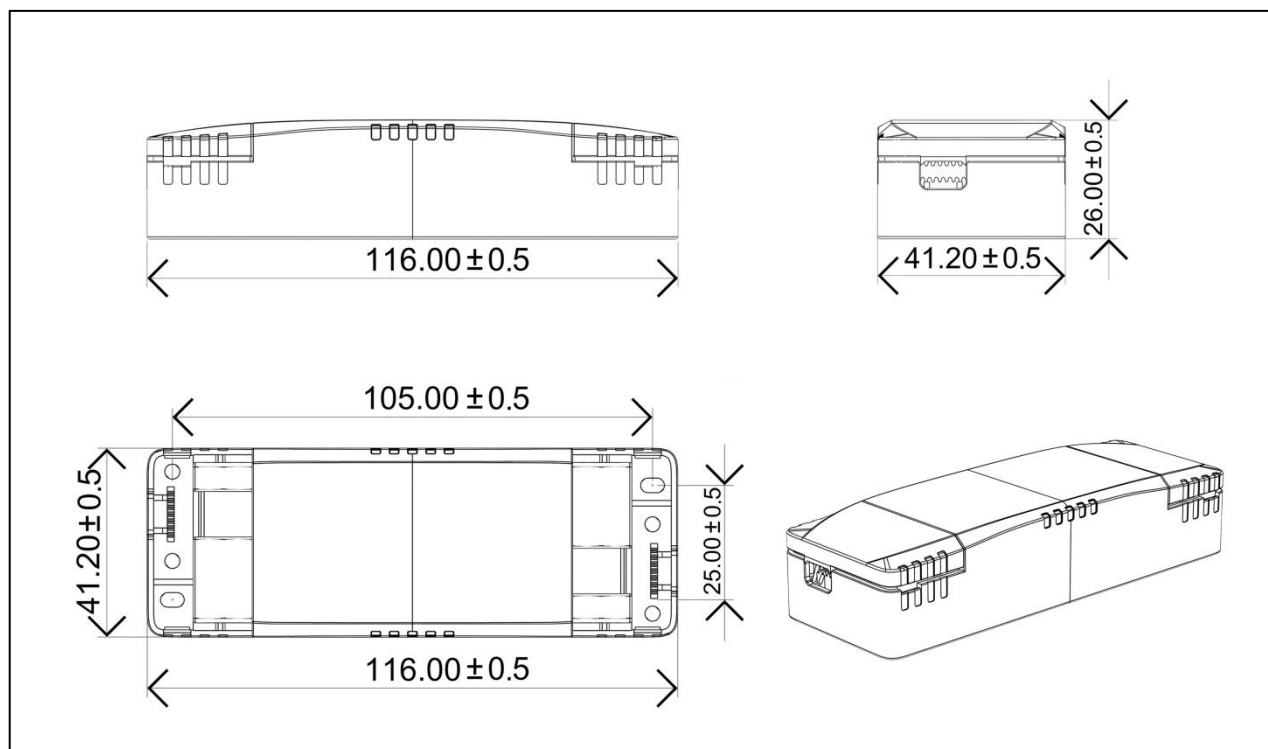
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
24.9A	142μs	23pcs	37pcs	47pcs	36pcs	58pcs	72pcs

◆ Wiring diagram



◆ 2D diagram

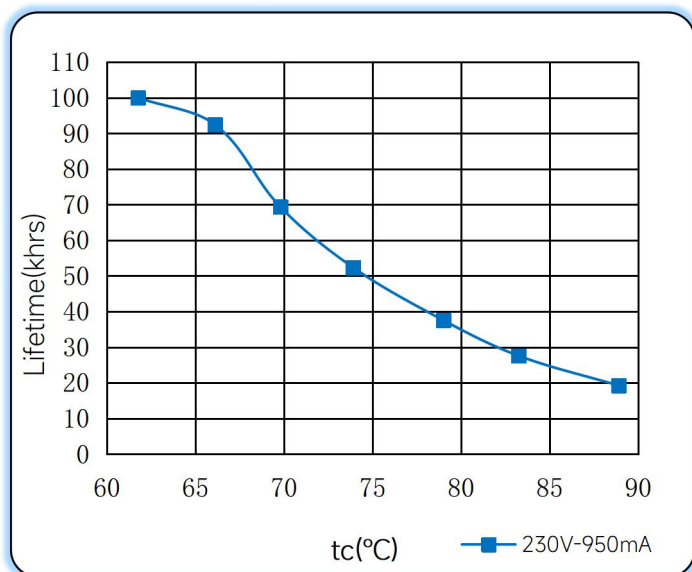


◆ Wiring & Connections

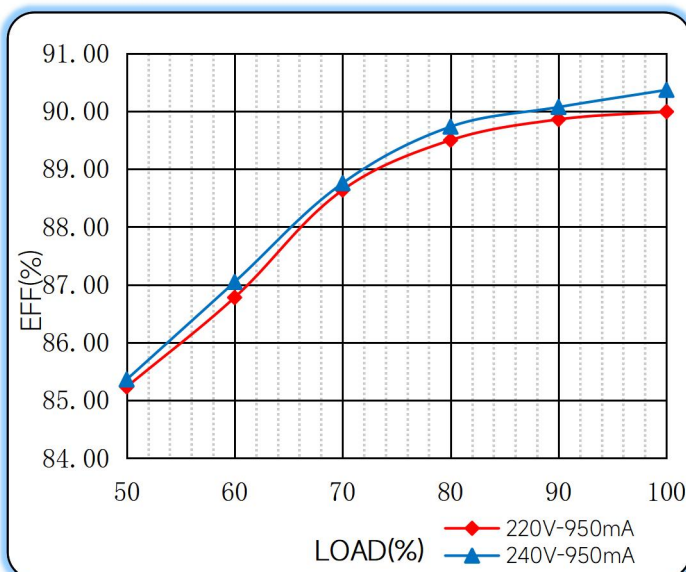
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for LS-40-XXX LI-G ECO, $I_o=950\text{mA}$

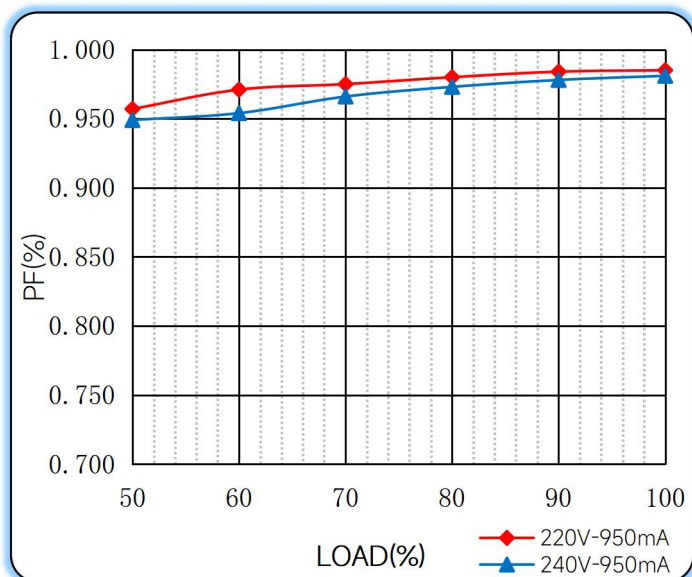
Lifetime vs. Temperature Curve



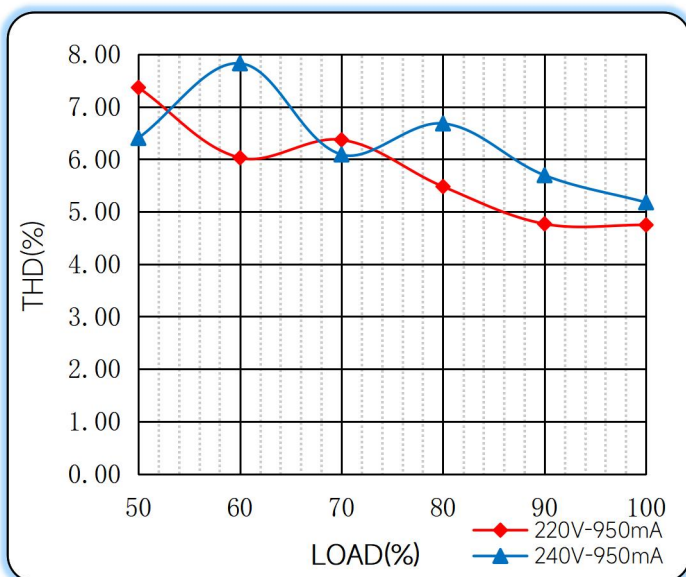
Efficiency vs. Load



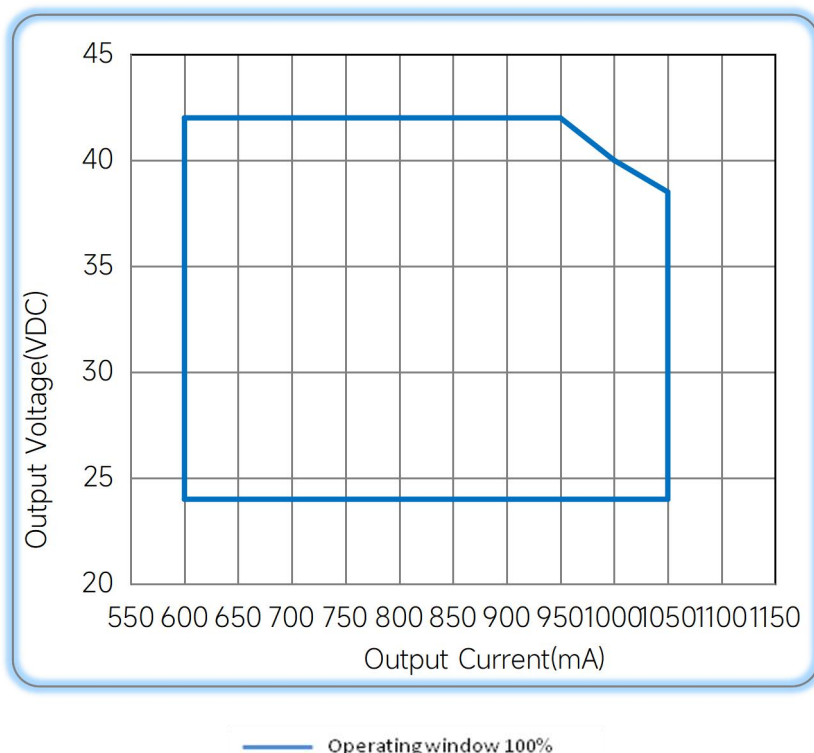
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15
Specification		updated	B	2023/02/03

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>



EAGLERISE



Manual