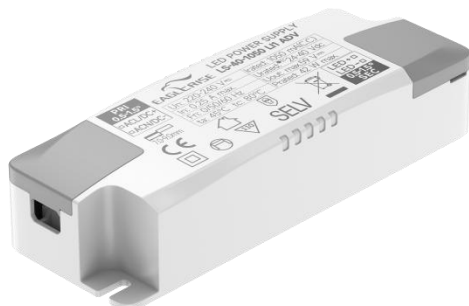


40W Constant Current Power Supply



■ Approve



Features

- For luminaries of protection Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: ≥ 0.95 (Typ.)
- Efficiency: $\geq 93\%$
- 5 years warranty
- IP20

Applications

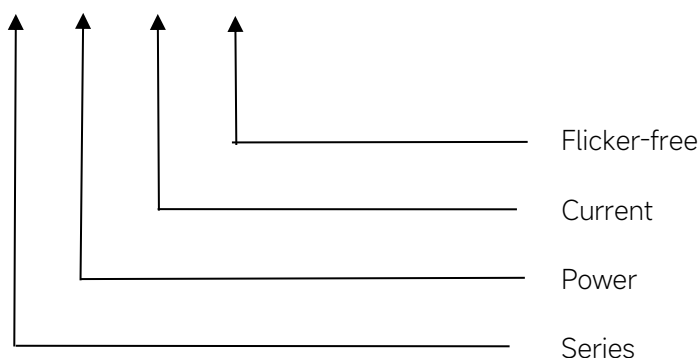
- LED panel

◆ Description

LS-40-XXX LI1 ADV is a 40W constant current LED driver with 800 to 1050mA output current and a forward voltage range from 24 to 40Vdc. With it's compact dimensions from 116 x 41 x 26 mm. It is easy to integrate in LED Panel products. The side covers are available as accessories and allow to use the LED driver independent.

◆ Model code

LS-40-XXX LI1 ADV



◆ Specification

	Constant Current (mA)	800mA	850mA	900mA	950mA	1000mA	1050mA
Output	Voltage Range(VDC)	24-40V					
	Unload voltage Max.(VDC)	59V					
	Current Accuracy	±5%					
	Output LF current ripple(≤120Hz)	≤±3%					
	SVM	≤0.4					
	Pst	≤1					
	Efficiency(Typ.)	≥93% @Full Load,230V					
Input	Rated input voltage(VAC)	220-240V					
	Range of input voltage(VAC)	198-264VAC					
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition					
	Range of input voltage(VDC)	176-280VDC					
	Frequency(Hz)	0/50/60 Hz					
	Displacement factor	≥0.95 @Full Load,230V					
	Power Factor	≥0.95 @Full Load,230V					
	Input Current max	0.25A Max.					
	Start-up time	< 0.5S					
	No Load Power	≤0.5W					
Protection	Over Load Protection	103-120%					
		YES/Auto Resume					
	Over Voltage Protection	>59V					
		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°C~+45°C					
	Humidity	20%-90%RH					
	Tc	80°C					
	Storage Temperature	-25°C~+60°C					
	Life time	> 50000h@Tc=80°C,230VAC					
Surface	Ripple&Noise	≤20dB(A)@10cm					
	Dimension	116X41X26mm					
Standards	material	PC					
	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2-13; EN62384;					
Standards	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-2,3,4,5,6,8,11, 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 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. 4.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered. 5.The over-temperature protection of the product is provided by the IC..	

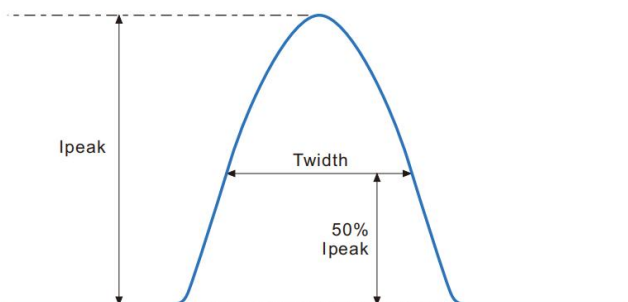
◆ Parameter

Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-40-800 LI1 ADV	800mA	24-40VDC	59	32
2	LS-40-850 LI1 ADV	850mA			34
3	LS-40-900 LI1 ADV	900mA			36
4	LS-40-950 LI1 ADV	950mA			38
5	LS-40-1000 LI1 ADV	1000mA			40
*6	LS-40-1050 LI1 ADV	1050mA			42

* Factory default

◆ Inrush Current

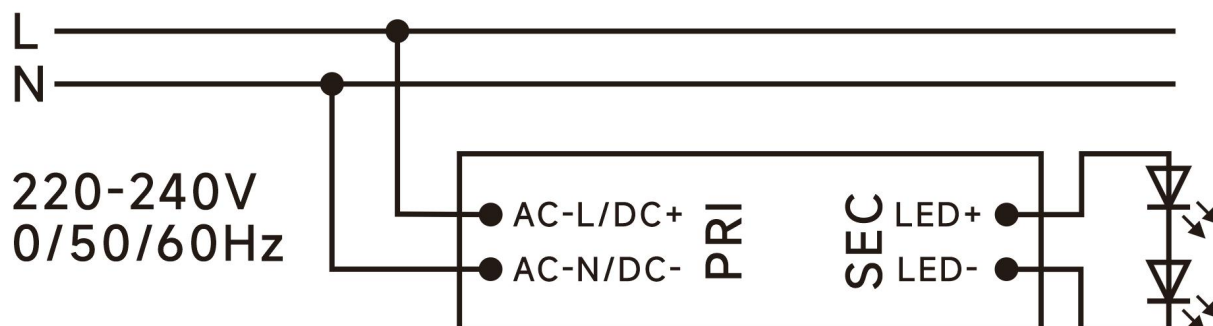
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
39A	136μs	15pcs	25pcs	31pcs	26pcs	42pcs	52pcs



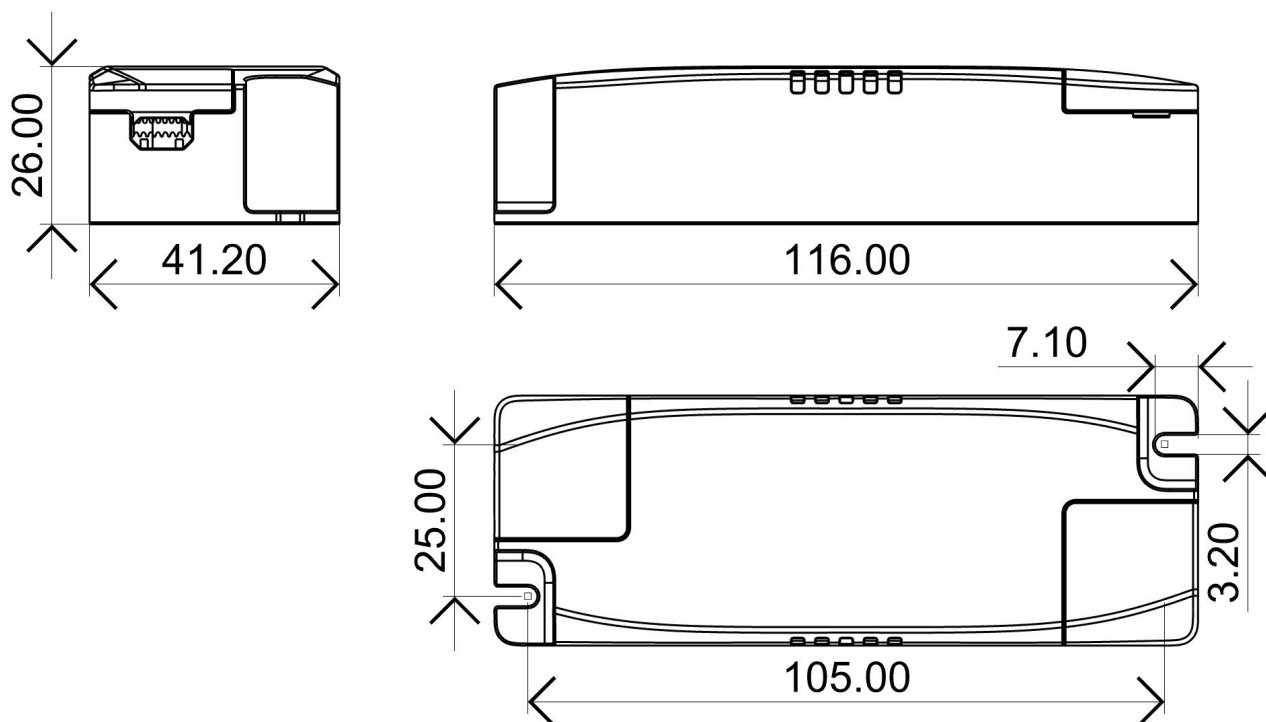
Remarks:

- 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



◆ Wiring & Connections

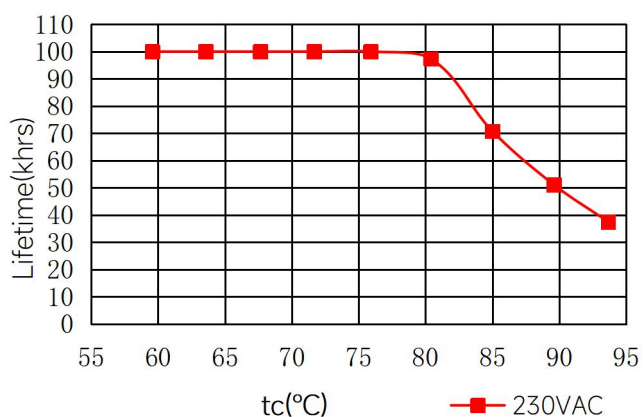
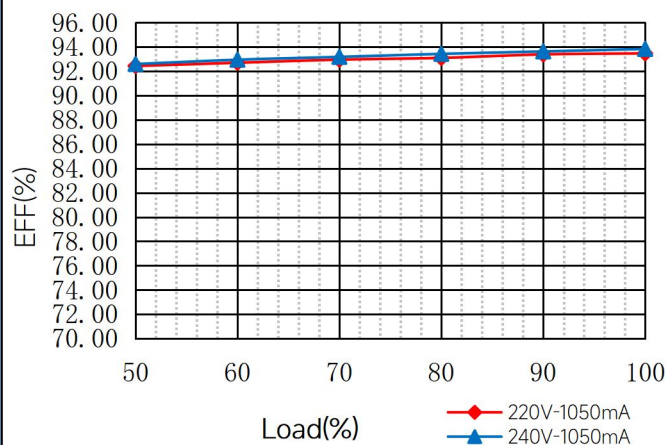
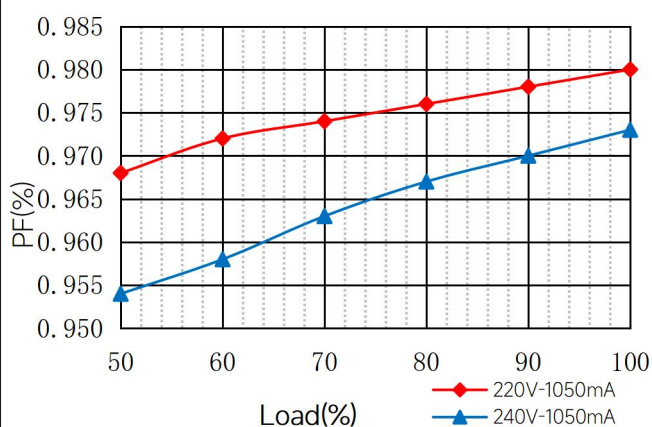
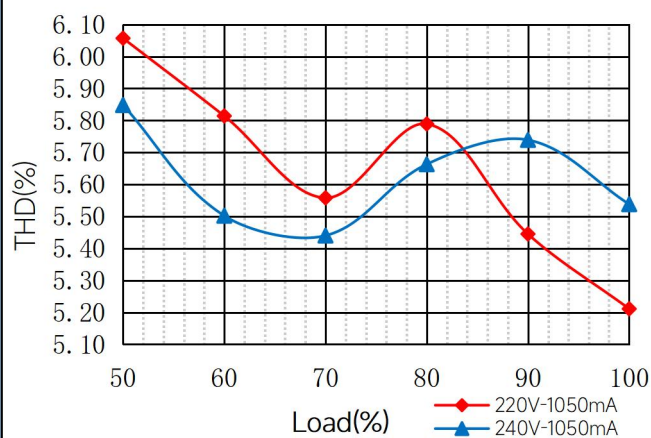
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

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

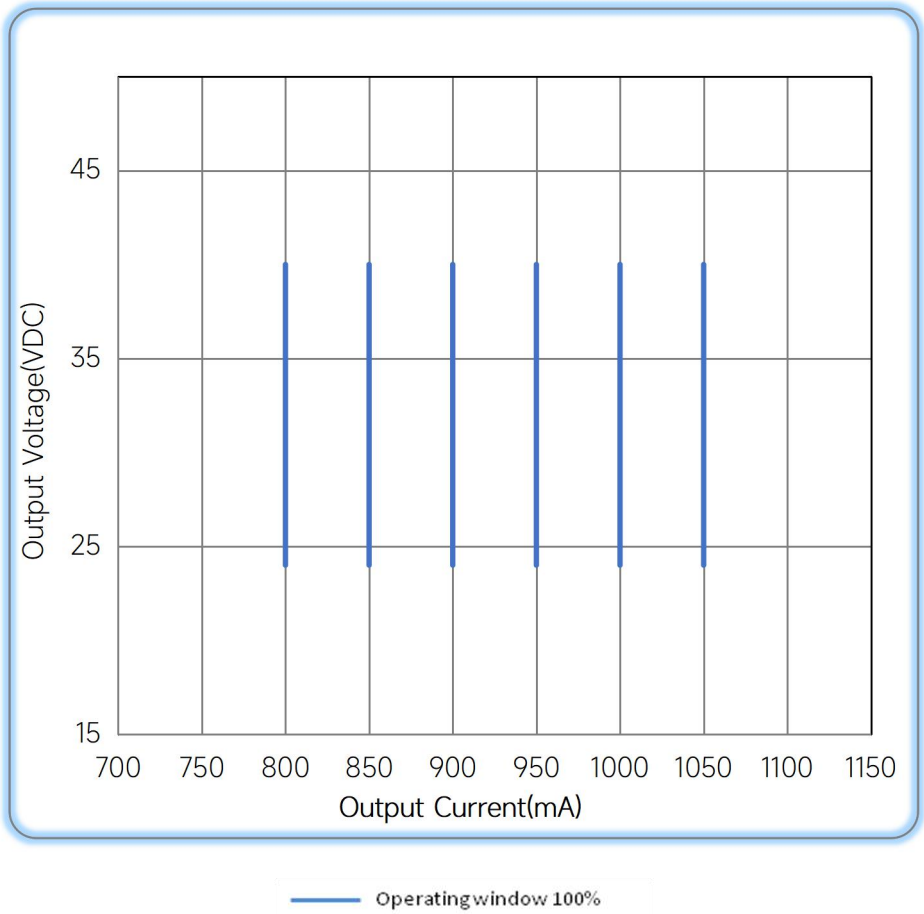
◆ Packaging

Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LS-40-XXX LI1 ADV	116X41X26	0.085	370X275X215	126	10.71	11.71

◆ Curve for LS-40-1050 LI1 ADV, $I_o=1050\text{mA}$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2025/08/30
Curve		Update	B	2025/11/18

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

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