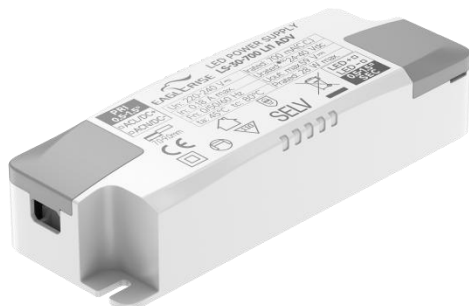


30W Constant Current Power Supply



■ Approve



Features

- For luminaires 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

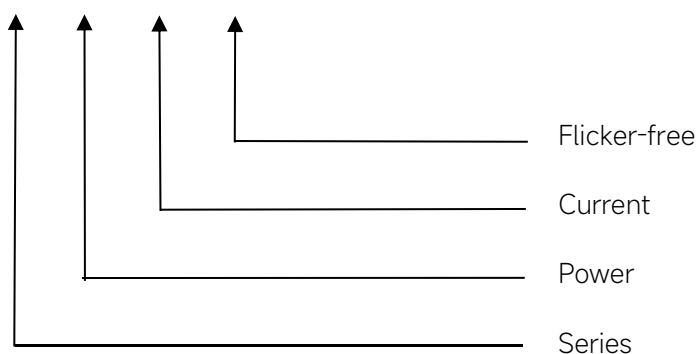
- LED panel

◆ Description

LS-30-XXX LI1 ADV is a 30W constant current LED driver with 550 to 750mA 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-30-XXX LI1 ADV



◆ Specification

	Constant Current (mA)	550mA	600mA	650mA	700mA	750mA
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	0.18A Max.				
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
	THD (Typ.)	<10% @Full Load,230V				
Protection	Over Load Protection	103-120%				
		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	80°C				
	Storage Temperature	-25°C~+60°C				
	Life time	> 50000h@Tc=80°C,230VAC				
	Ripple&Noise	≤20dB(A)@10cm				
Surface	Dimension	116X41X26mm				
	material	PC				
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2-13; EN62384;				
	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..	

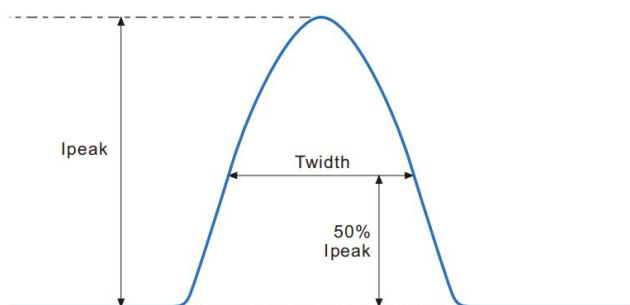
◆ Parameter

Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-30-550 LI1 ADV	550mA	24-40VDC	59	22
2	LS-30-600 LI1 ADV	600mA			24
3	LS-30-650 LI1 ADV	650mA			26
4	LS-30-700 LI1 ADV	700mA			28
*5	LS-30-750 LI1 ADV	750mA			30

* Factory default

◆ Inrush Current

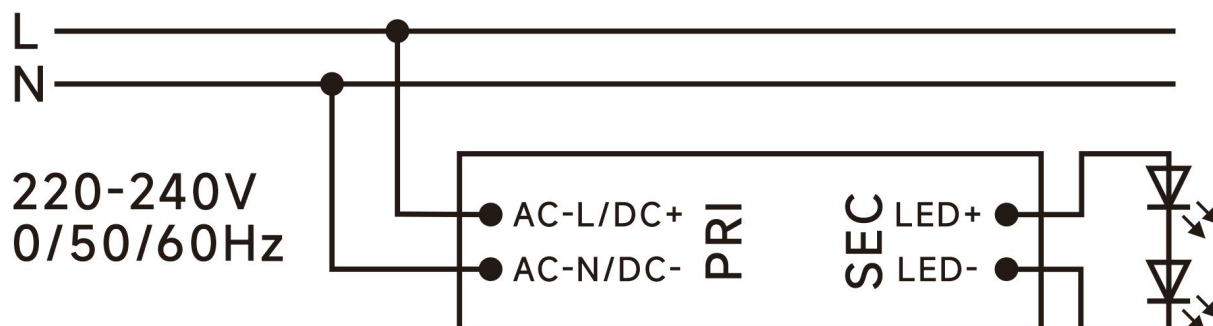
I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
34.2A	112μs	22pcs	35pcs	44pcs	36pcs	59pcs	73pcs



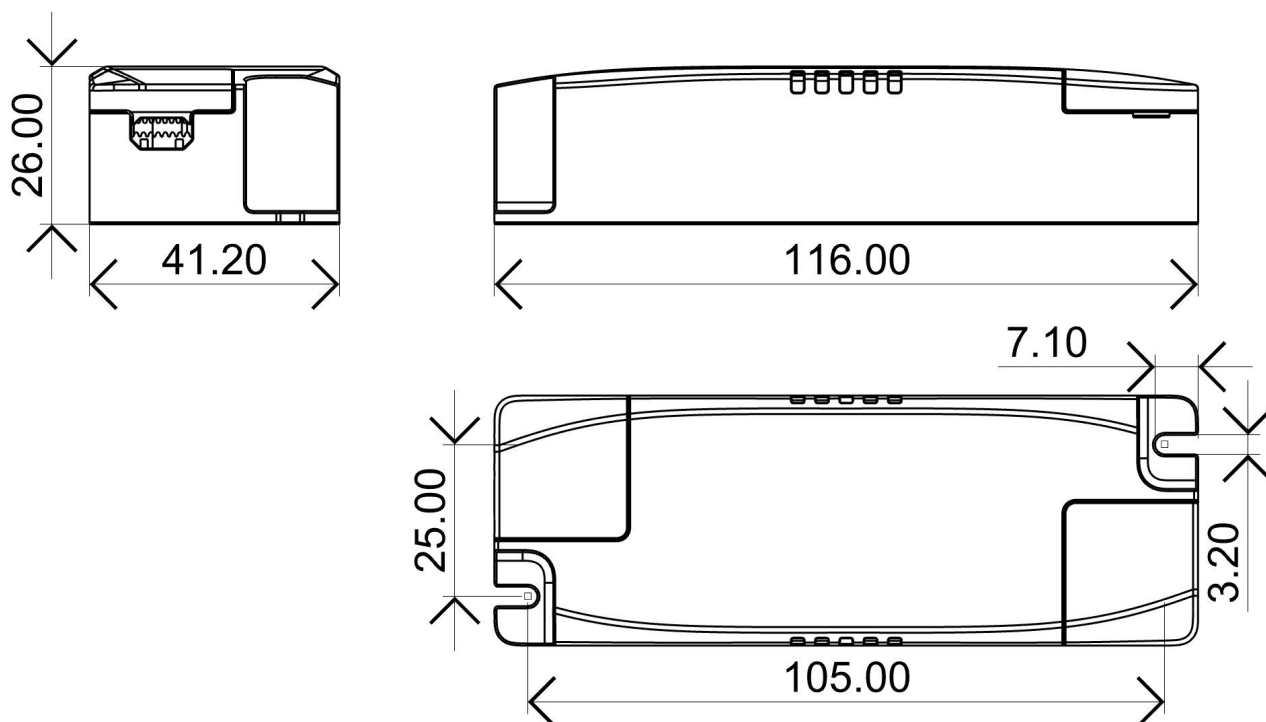
Remarks:

- 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

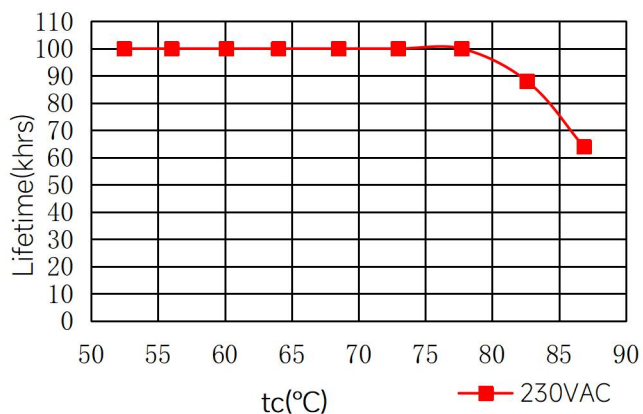
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Packaging

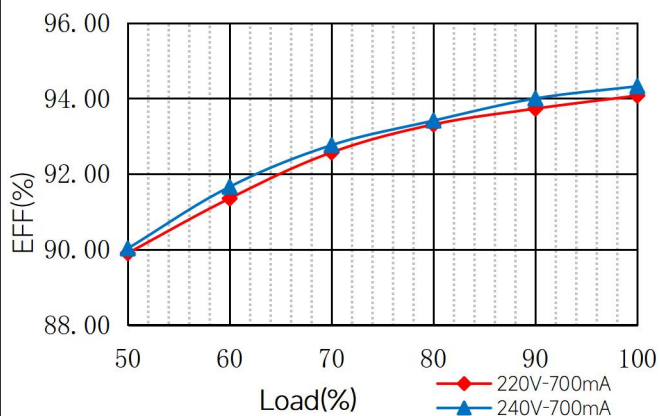
Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LS-30-XXX LI1 ADV	116X41X26	0.085	370X275X215	126	10.71	11.71

◆ Curve for LS-30-700 LI1 ADV, Io=700mA

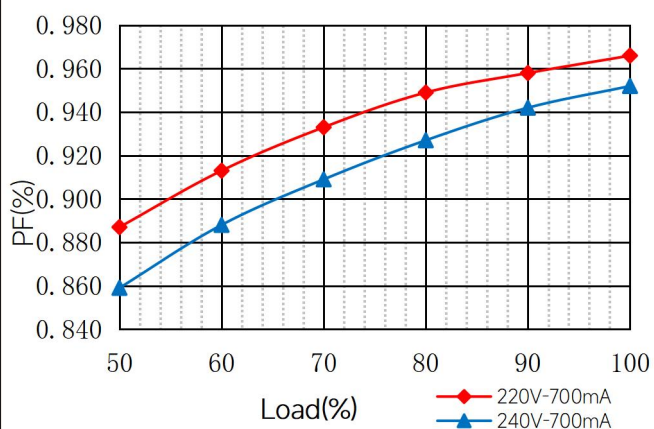
Lifetime vs. Temperature Curve



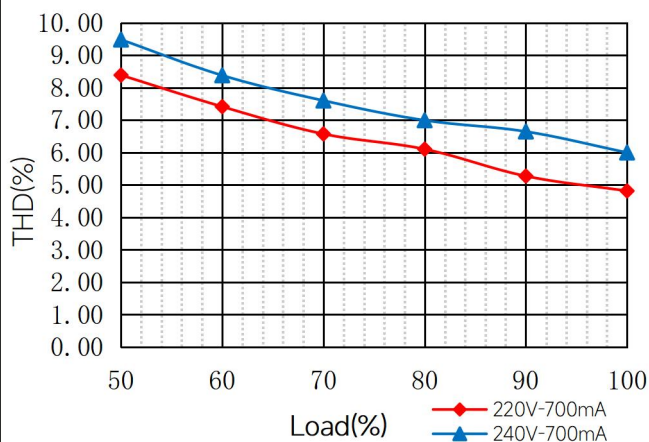
Efficiency vs. Load



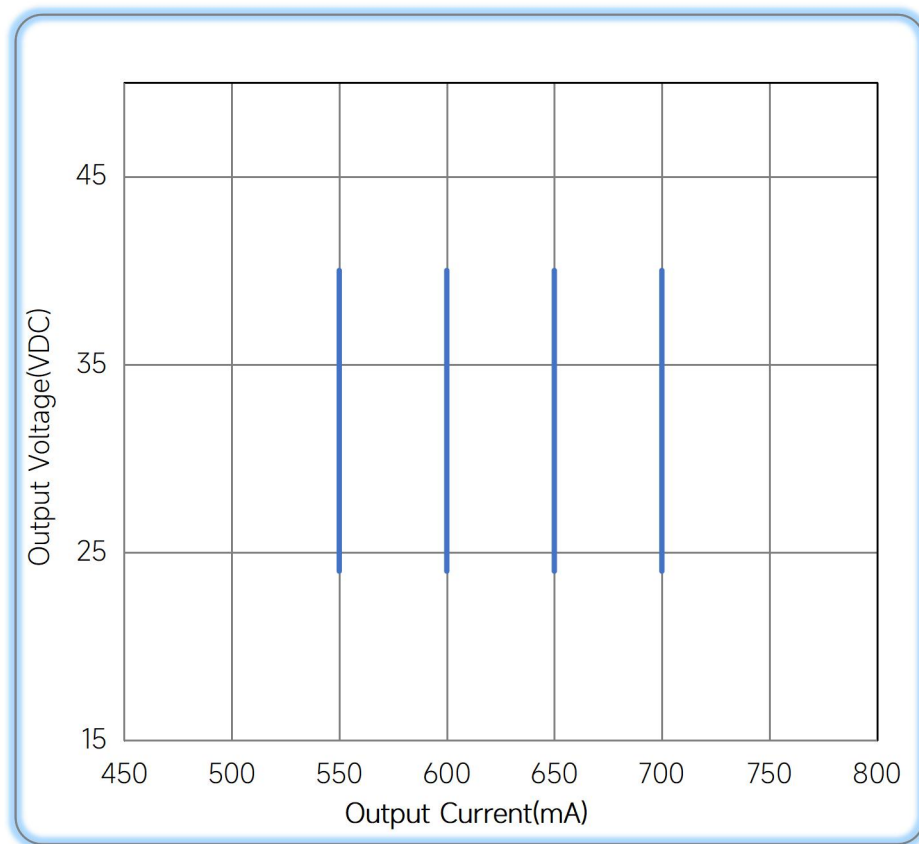
Power Factor Characteristics



THD vs. Load



◆ Operating window



— Operating window 100%

◆ 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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