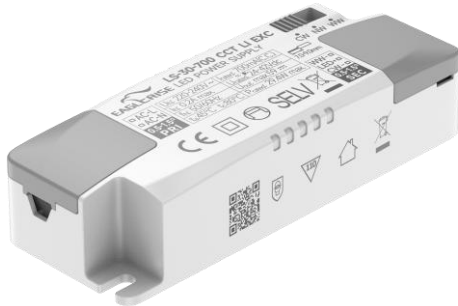


30W Constant Current power supply



Features

- Class II, SELV, independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95
- Efficiency: 87-89%
- 5 years warranty
- IP20

Applications

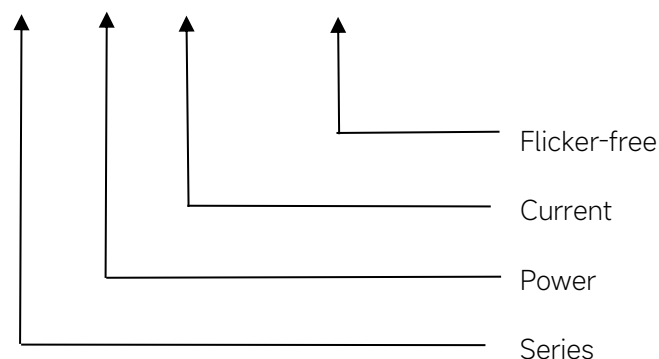
- LED panel, LED down light
- LED spot light

◆ Description

LS-30-XXX CCT LI EXC is a 30W constant current LED driver with 600 to 800mA output current. With it's compact dimensions from 102 x 38.2 x 25mm 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-30-XXX CCT LI EXC



◆ Specification

Output	Constant Current (mA)	600	650	700	750	800
	Voltage Range(VDC)	24-42				
	Unload voltage Max.	59VDC				
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±3%				
	Output LF current ripple(≤120Hz)	±3%				
	SVM	≤0.4				
	Pst	≤1				
	Efficiency(Typ.)	87%				
Input	Rated input voltage	220-240V				
	Range of input voltage	198-264VAC				
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition				
	Frequency(Hz)	50/60 Hz				
	Displacement factor	≥0.9				
	Power Factor(Typ.230VAC)	0.95				
	Input Current max (mA)	170	190	200	220	230
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
	THD (Typ.)	<10%				
Protection	Over Load Protection	103-130%				
		YES/Auto Resume				
	Over Voltage Protection	59VDC				
		YES/Auto Resume				
capability	Surge capability (L-N)	2KV				
	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=75°C				
	Noise	≤20dB(A)@10cm				
Surface	Dimension	102X38.2X25(LXWXH)mm				
	material	PC				
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;AS/NZS 61347- 1, AS/NZS 61347-2- 13;AS 61347.2.13;EN62384;				

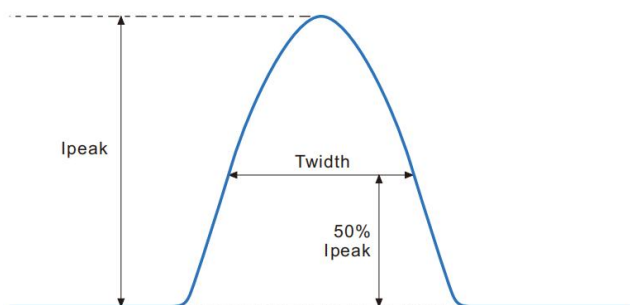
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN55015, EN61000-3-2, EN61000-3-3, EN61547,EN 62493;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547
	ErP	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters not specially mentioned are measured at 230VAC input , 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.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	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-30-600 CCT LI EXC	600	24-42	59	25.2
2	LS-30-650 CCT LI EXC	650			27.3
3	LS-30-700 CCT LI EXC	700			29.4
4	LS-30-750 CCT LI EXC	750			31.5
5	LS-30-800 CCT LI EXC	800			33.6

◆ Inrush Current

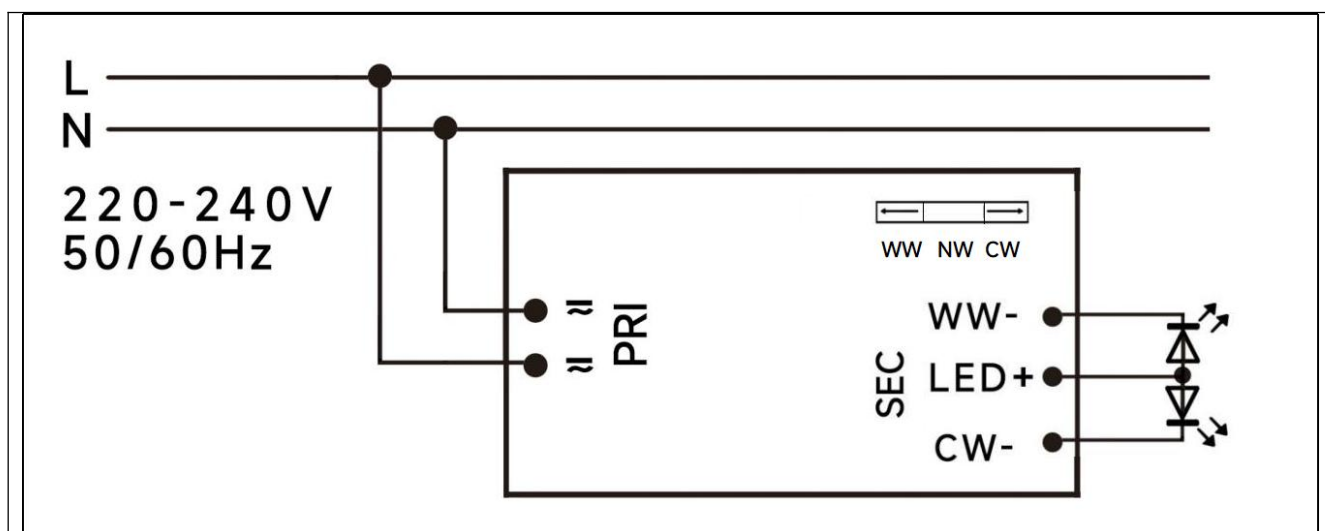
I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
26.1A	128μs	25pcs	40pcs	50pcs	34pcs	55pcs	69pcs



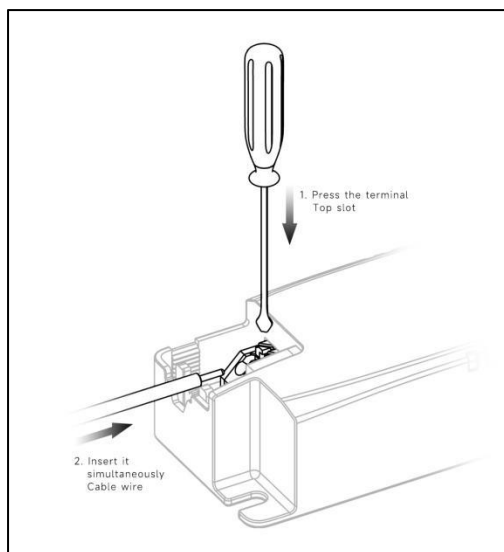
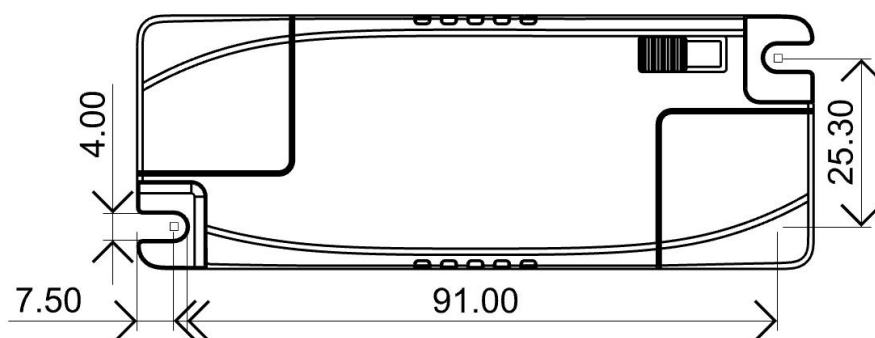
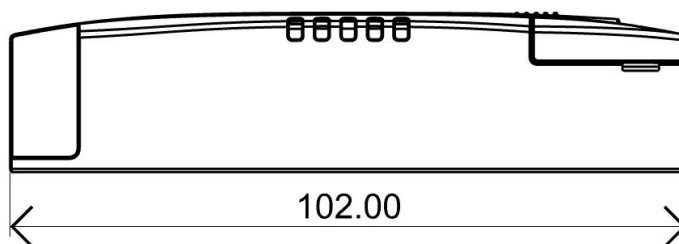
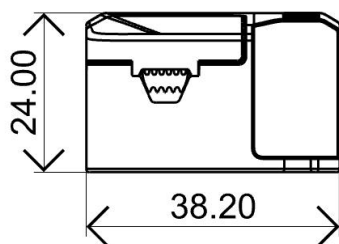
Remarks:

- 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

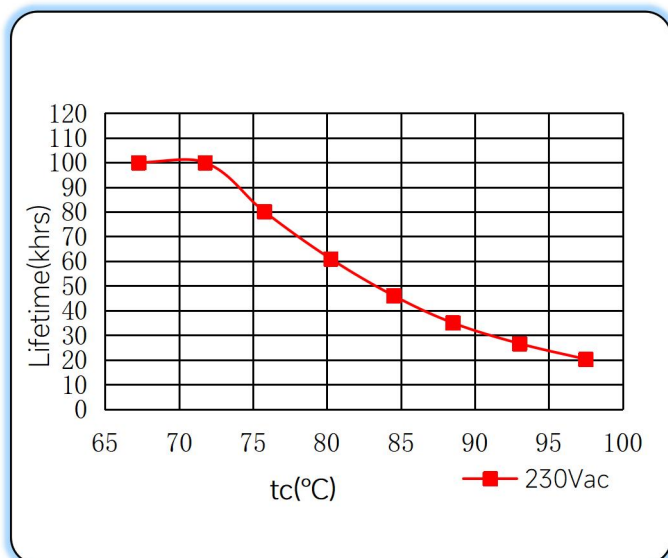
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Packaging

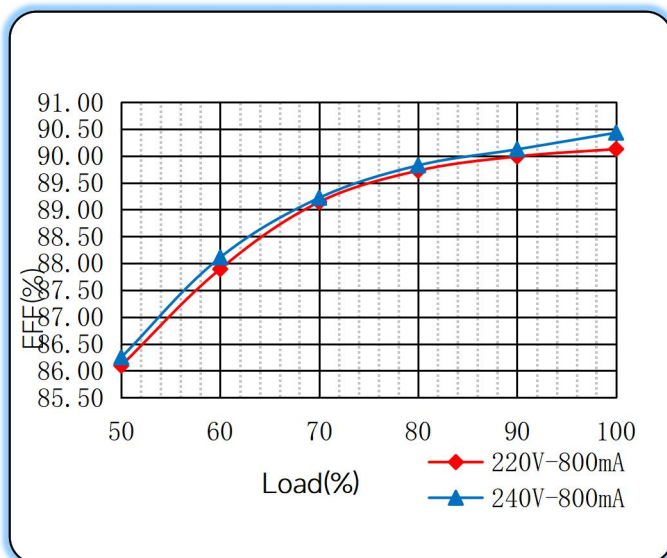
Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LS-30-XXX CCT LI EXC	102X38.2X25mm	0.065	370X275X215mm	156	10.14	11.29

◆ Curve for LS-30-XXX CCT LI EXC, $I_o=800\text{mA}$

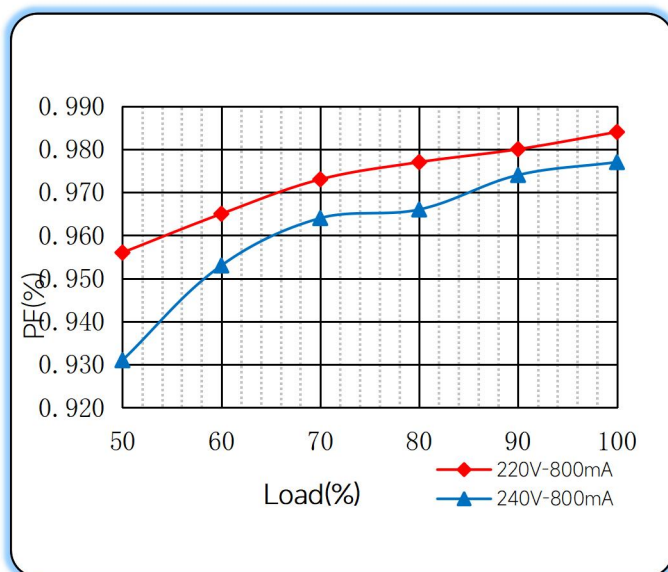
Lifetime vs. Temperature Curve



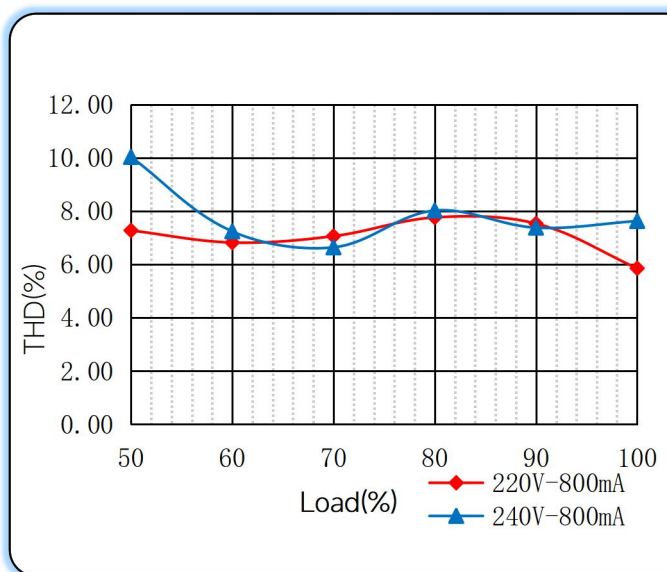
Efficiency vs. Load



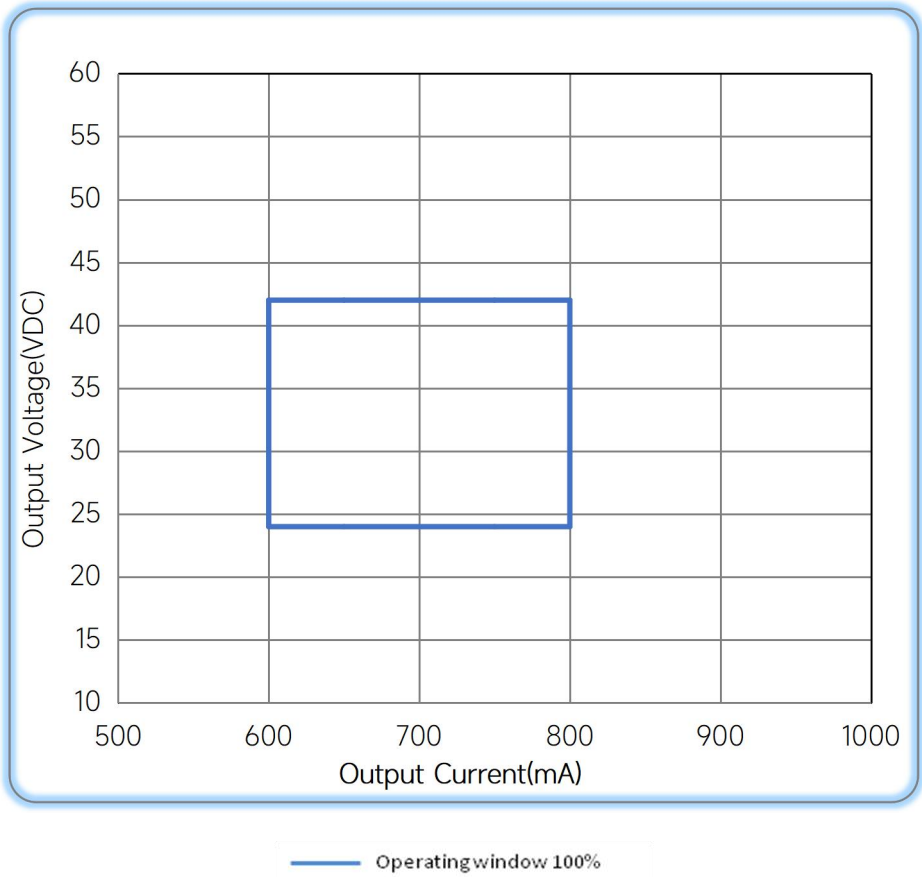
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2024/11/13

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

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EAGLERISE



Manual