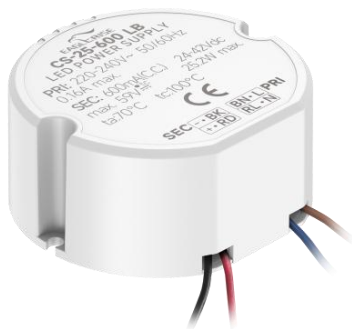


25W Constant Current power supply



■ Approve

CE CB EN CCC SELV

Features

- Class II, SELV, Built-in
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.95
- Efficiency: $\geq 88\%$
- 5 years warranty
- IP20

Applications

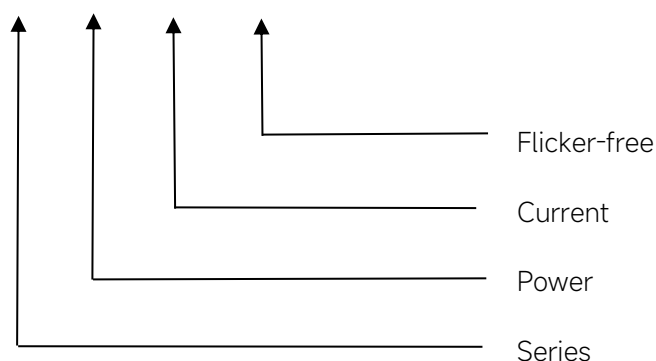
- LED panel, LED ceiling light
- LED spot light

◆ Description

CS-25-XXX LB is a 25W constant current LED driver with 450 to 600mA output current. With it's compact dimensions from $\Phi 56.5 \times 25.5$ mm. It is easy to integrate in LED Panel, spot and ceiling lights product. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

CS-25-XXX LB



◆ Specification

Output	Constant Current (mA)	450	500	550	600
	Voltage Range(VDC)	24-42			
	Unload voltage Max.	59VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±5%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	≥87%@Full load,230V		≥88%@Full load,230V	
Input	Rated input voltage	220-240VAC			
	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	≥0.7			
	Power Factor	0.95			
	Input Current max (mA)	125	140	150	160
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD	≤10%			
Protection	Over Load Protection	103-130%			
		YES/Auto Resume			
	Over Voltage Protection	59VDC			
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Over Temperature Protection	YES/Auto Resume				
capability	Surge capability (L-N)	2KV			
	Surge capability (L/N-Ground)	NA			
Environment	Operating Temperature	-20℃~+70℃			
	Humidity	20%-90%RH			
	Tc	100℃			
	Storage Temperature	-25℃~+80℃			
	Life time	> 50000h@Tc=85℃			
	Noise	≤20dB(A)@10cm			
Surface	Dimension	Φ56.5 x 25.5mm			
	material	PC			
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN62384			
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5			

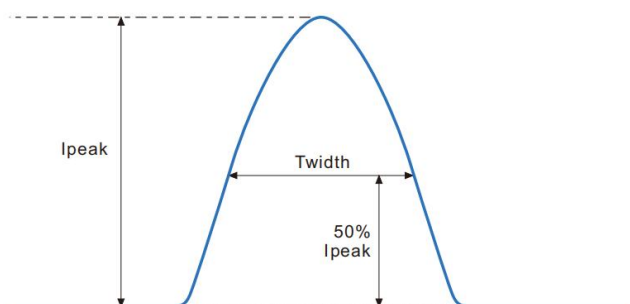
	Energy Efficiency	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters not specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.Switch and dimmer are not recommended to connect between this product output and luminaries. 4.Surge capability (L/N-Ground) was measured with a metal plate 2-3mm underlay. 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	CS-25-450 LB	450	24-42	59	18.9
2	CS-25-500 LB	500			21
3	CS-25-550 LB	550			23.1
4	CS-25-600 LB	600			25.2

◆ Inrush Current

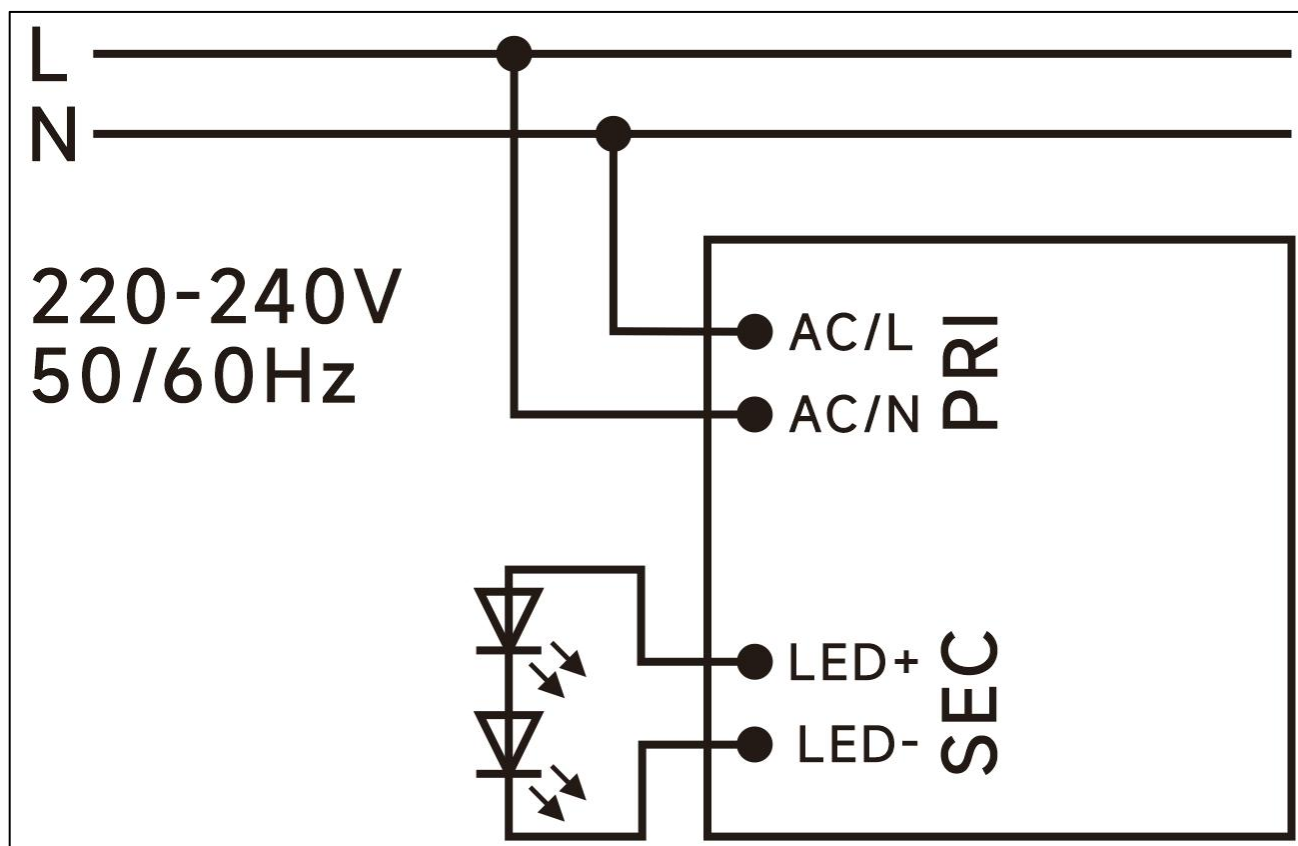
I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
8.4A	124μs	50pcs	80pcs	100pcs	50pcs	80pcs	100pcs



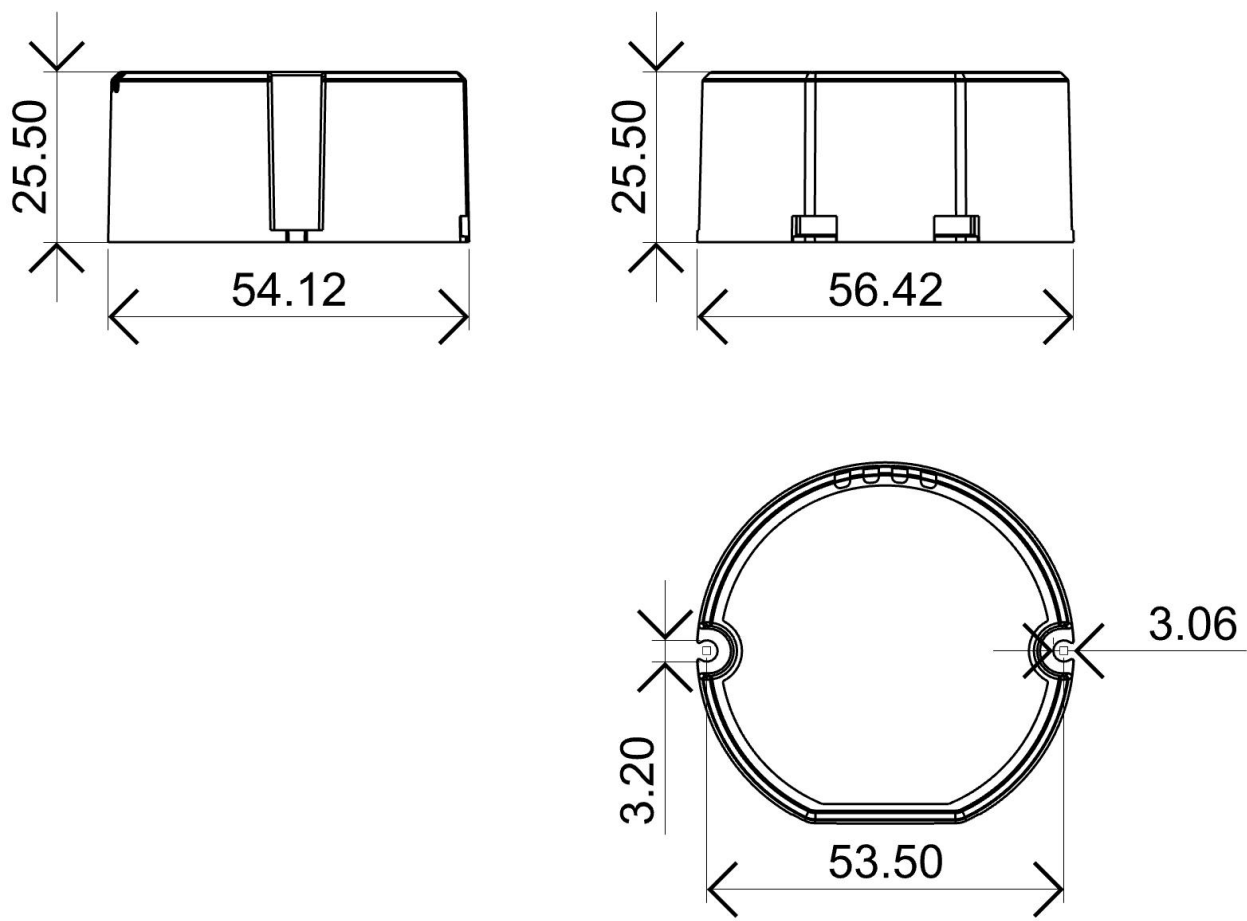
Remarks:

- 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



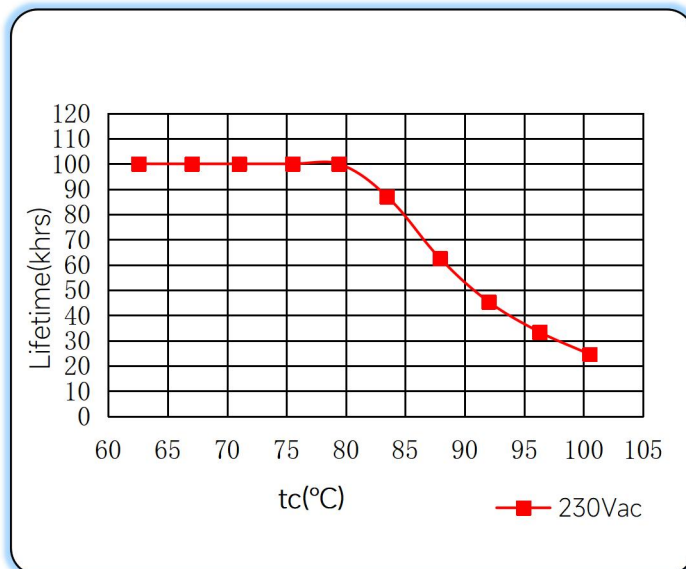
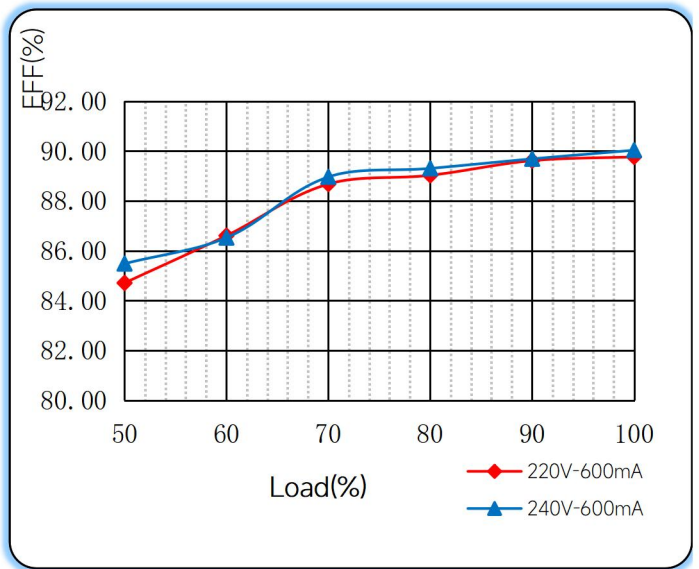
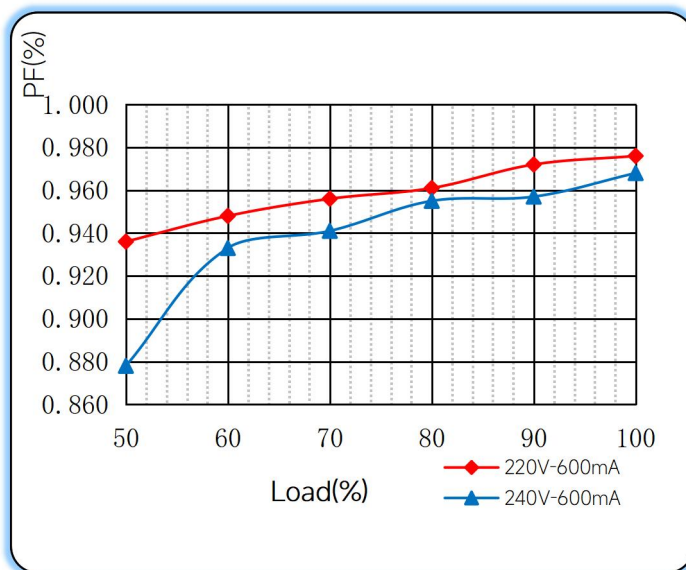
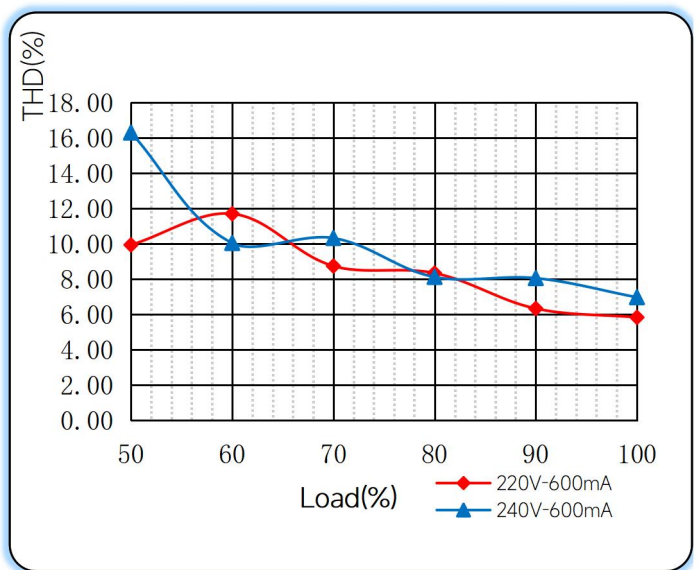
◆ 2D diagram



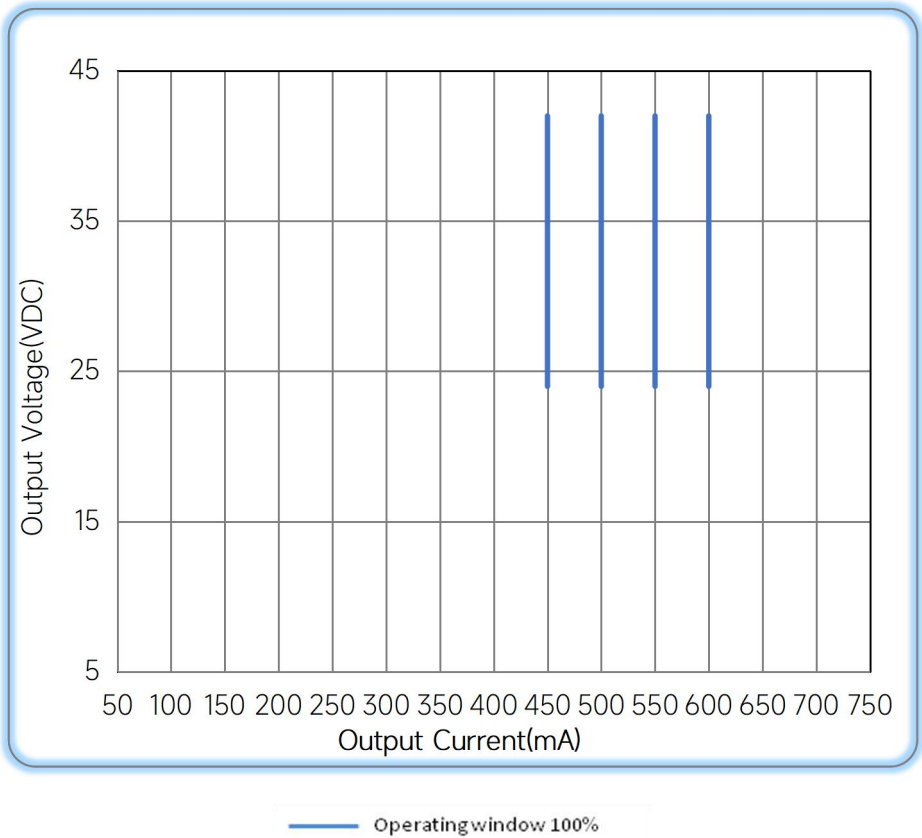
◆ Packaging

Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
CS-25-XXX LB	Φ56.5x25.5	0.1	295X255X200	180	18	18.69

◆ Curve for CS-25-XXX LB, $I_o=600\text{mA}$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2025/02/12

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

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EAGLERISE



Manual