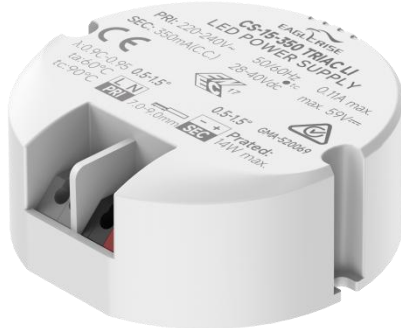


15W Triac Dimming power supply



■ Approve

CE CB EN CCC SELV

Features

- For luminaries of protection Class II, SELV, Built-in
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95
- Efficiency: 82%
- 5 years warranty
- IP20

Applications

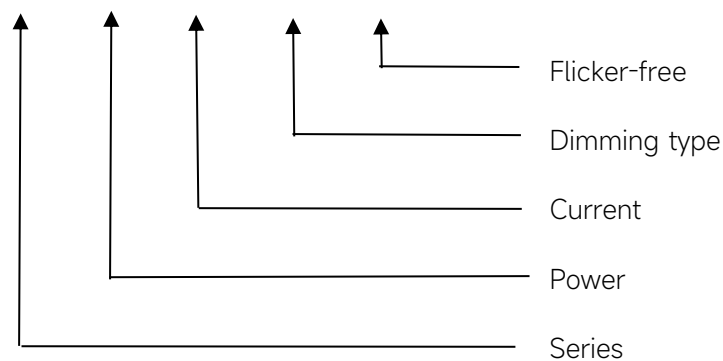
- LED panel, LED down light

◆ Description

CS-15-XXX TRIAC LI is a 15W constant current LED driver that operates from 198-264Vac input with 250-350mA output current. With it's compact dimensions from $\Phi 65 \times 25$ mm it is easy to integrate in LED panel, pendant light and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

CS-15-XXX TRIAC LI



◆ Specification

Output	Constant Current (mA)	250	280	300	350
	Voltage Range(VDC)	28-40			
	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.)	≥82%@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	≥0.9			
	Power Factor	0.95			
	Input Current max (mA)	80	85	90	110
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	<25%			
Dimming	Dimming	YES			
	Dimming mode	Triac, Leading edge & trailing edge dimmable			
	Dimming depth	8%			
	Dimming current range	8 ~ 100%			
Protection	Over Load Protection	103-130%			
		YES/Auto Resume			
	Over Voltage Protection	59VDC			
		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~+60°C			
	Humidity	20%-90%RH			
	Tc	90°C			
	Storage Temperature	-25°C~+80°C			
	Life time	> 50000h@Tc=85°C			
	Noise	≤30dB(A)@20cm			
Surface	Dimension	Φ65 x 25mm			
	material	PC			

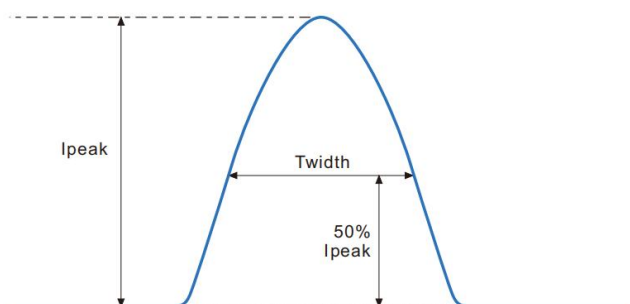
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13; EN62384
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547
	Energy Efficiency	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	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.The over-temperature protection of the product is provided by the IC. 4.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-15-250 TRIAC LI	250	28-40	59	10
2	CS-15-280 TRIAC LI	280			11.2
3	CS-15-300 TRIAC LI	300			12
4	CS-15-350 TRIAC LI	350			14

◆ Inrush Current

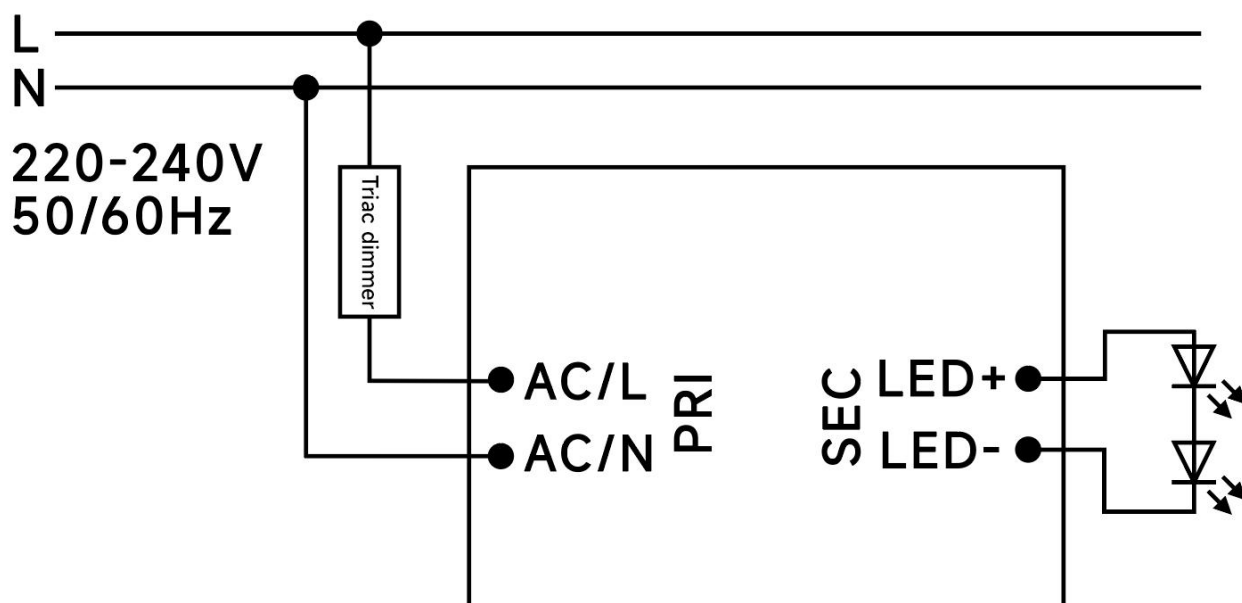
I_{peak}	T_{width}	B10	B16	B20	C10	C16	C20
1.86A	52.8μs	72pcs	116pcs	145pcs	72pcs	116pcs	145pcs



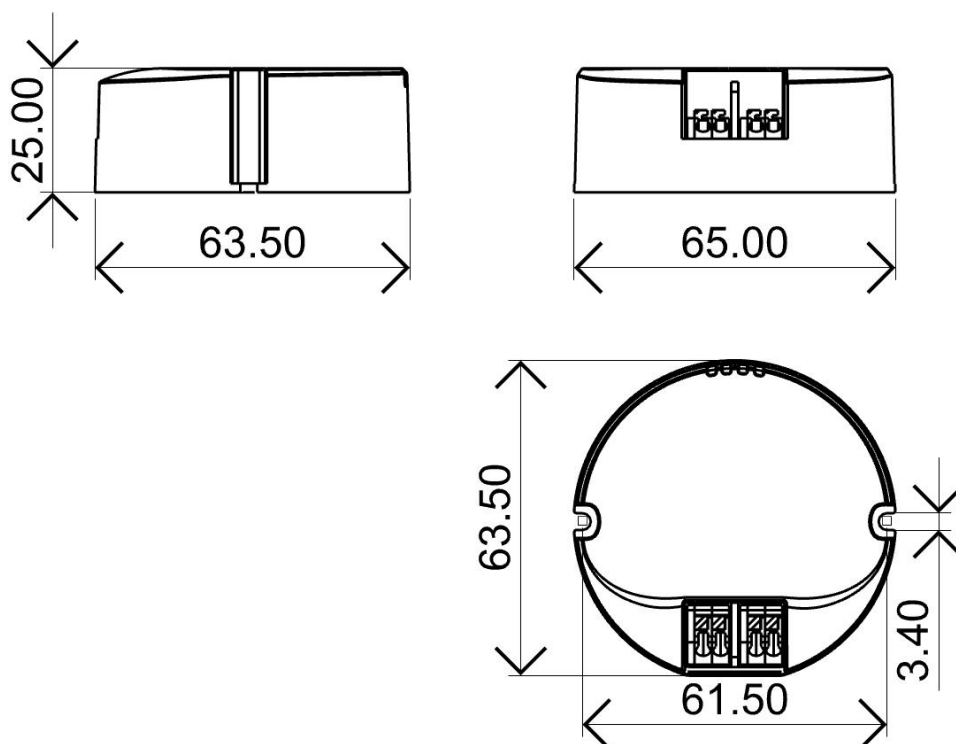
Remarks:

- 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.

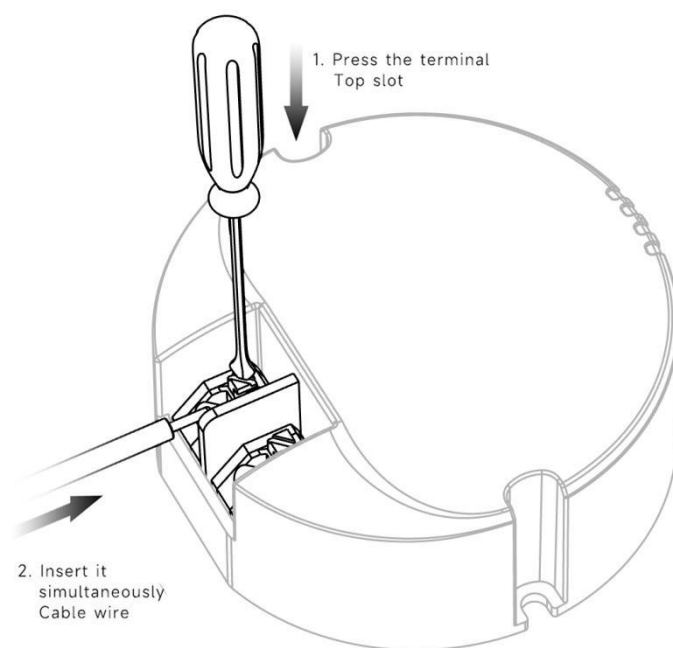
◆ Wiring diagram



◆ 2D diagram



Terminal



◆ 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

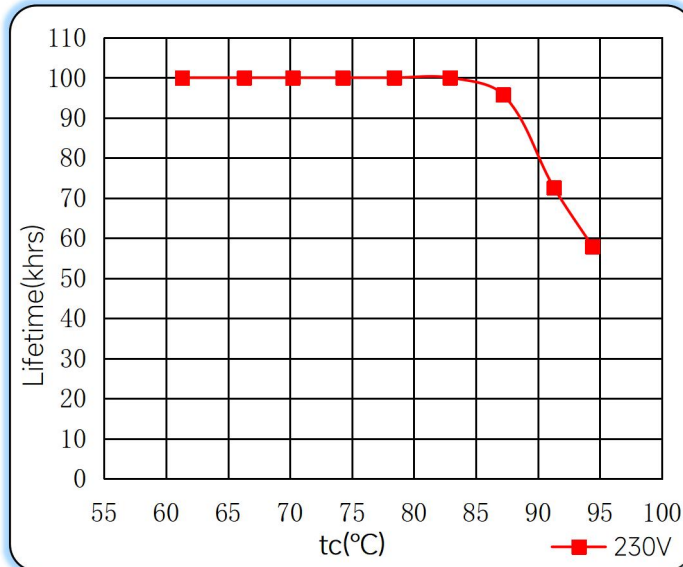
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Packaging

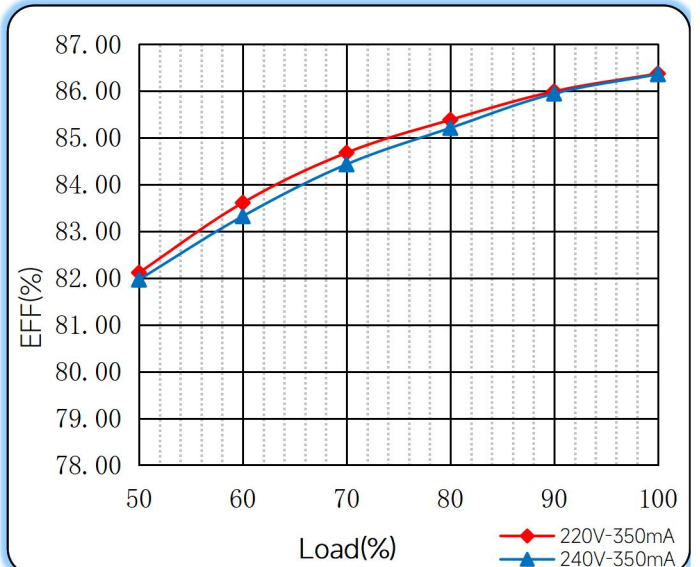
Model	Product Dimensions(mm)	weight/piece	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
CS-15-XXX TRIAC LI	Φ65 x 25	0.103	Inside: 370X275X215 Outside: 385X285X225	144	14.832	15.462

◆ Curve for CS-15-XXX TRIAC LI, $I_o=350\text{mA}$

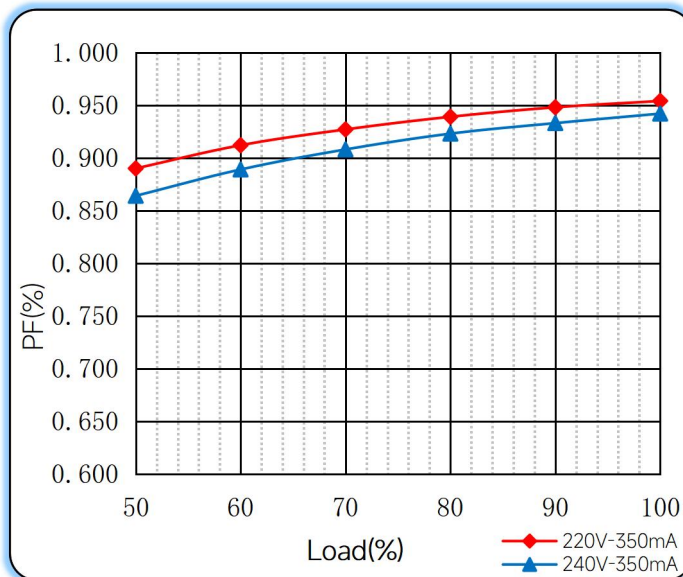
Lifetime vs. Temperature Curve



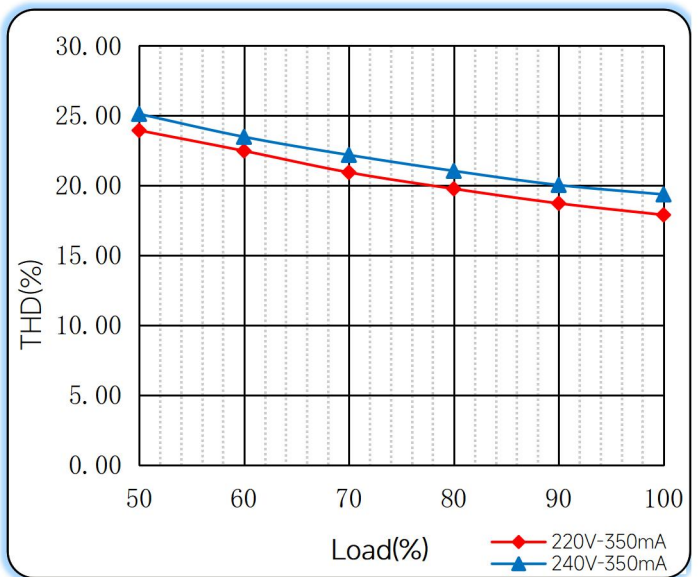
Efficiency vs. Load



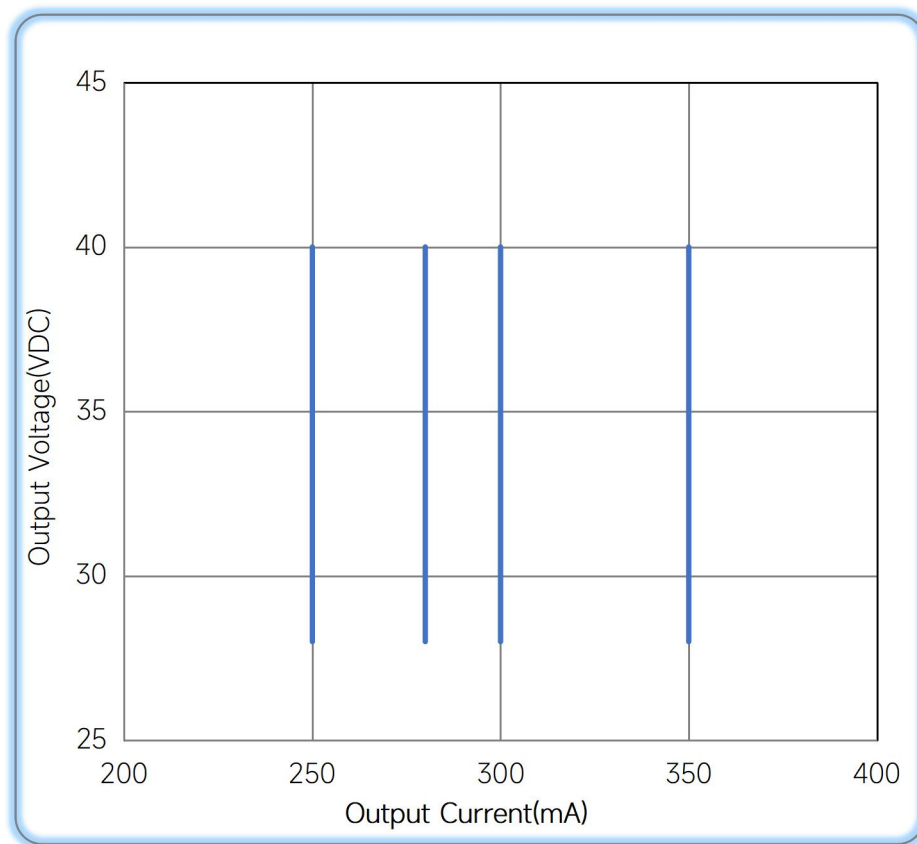
Power Factor Characteristics



THD vs. Load



◆ Operating window



— Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2024/04/01
Power Factor	≥0.95	0.95	B	2024/07/26

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

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

E-mail: sales@eaglerise.com

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



EAGLERISE



Manual