

8W Constant Current power supply



■ Approve



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : 0.6C
- Efficiency : 80%

Applications

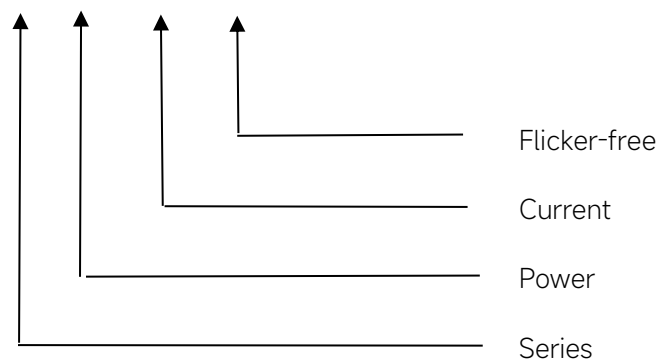
- Wall light
- COB light
- Spot light

◆ Description

LC-8-XXX SI ECO is a 8W constant current LED driver with xxx mA output current. With it's compact dimensions from 92 x 36 x 25 mm it is easy to integrate in spot light, wall light and COB light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

LC-8-XXX SI ECO



◆ Specification

Input	Rated input voltage	220-240VAC				
	Range of input voltage	198-264VAC				
	Frequency(Hz)	50/60 Hz				
	Displacement factor	≥0.5@Full load, 240VAC				
	Power Factor	0.6C@Full Load, 240VAC				
	Input Current max	80mA	90mA	110mA	...	120mA
	Start-up time	< 0.5S				
	Unload Power Consumption	≤0.5W				
	Leakage Current	<0.7mA				
Output	Constant Current Max.	120mA	150mA	180mA	...	350mA
	Unload voltage Max.	59V	59V	59V	...	35V
	Voltage Range(VDC)	30-42V	30-42V	30-42V	...	15-24V
	Rated power	5.1W	6.3W	7.6W	...	8.4W
	Current Accuracy	±7%@30-42V,220-240VAC				
	Hold-up Time	1S@Full Load				
	Output HF current ripple(≥1KHz)	±5%				
	Output LF current ripple(≤120Hz)	±5%				
	SVM	≤0.4@Full Load				
	P _{st}	≤1@Full Load				
	Standby Power	≤0.5W				
	Efficiency(Typ.)	≥80%				
	power range	5.1W	6.3W	7.6W	...	8.4W
Wiring	Input PIN numbers	2 PINs				
	Input PIN cross section	0.5-1.5mm ²				
	Output PIN numbers	2 PINS				
	Output PIN cross section	0.5-1.5mm ²				
Protection	Over Load Protection	103-120% YES/Auto Resume				
	Over Voltage Protection	59V	59V	59V	...	35V
		YES/Auto Resume				
	Short circuit Protection	YES/Auto Resume				
	Over Temperature Protection	YES/Auto Resume				
	Type of protection	IP20				
Environment	Operating Temperature	-20°C...+45°C				
	Humidity	20%-90%RH				
	T _c (Max)	75°C				
	Storage Temperature	-20°C...+60°C				
	Insulation grade	Class II				

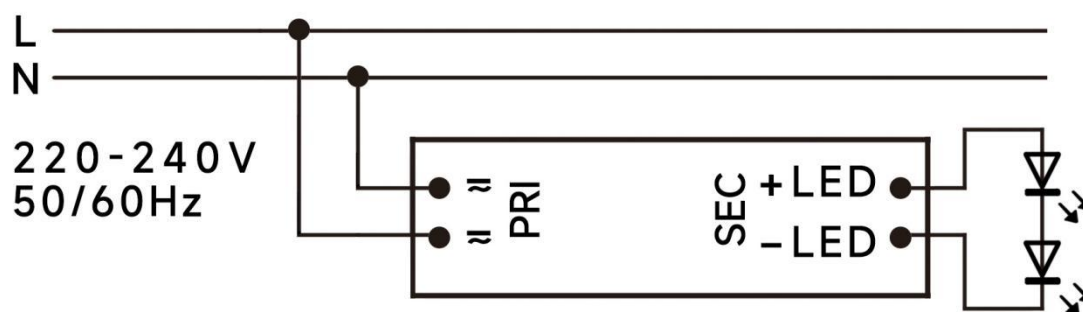
	Life time	> 50,000h@ta=40°C,230VAC
Surface	Dimension	92X36X25 (LXWXH)mm
	Shell material	PP (94-V0)
	Shell color	White
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13
	Withstand voltage	Input-Output: 3.75KV/5mA/1min
	Isolation resistance	Input-Output: ≥4MΩ@500VDC
	EMI	EN55015; EN61000-3-2 Class C; EN61000-3-3
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —500V;
	Certifications	CB/CE/CCC/ENEC/RCM
Others	ErP	EU 2019/2020
	ROHS	ROHS (2011/65/EU) (EU)2015/863
	Warranty	
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.Output current can be from 120mA to 600mA. Please see Model list below and contact LC for details.	

◆ Parameter

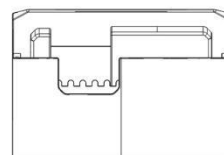
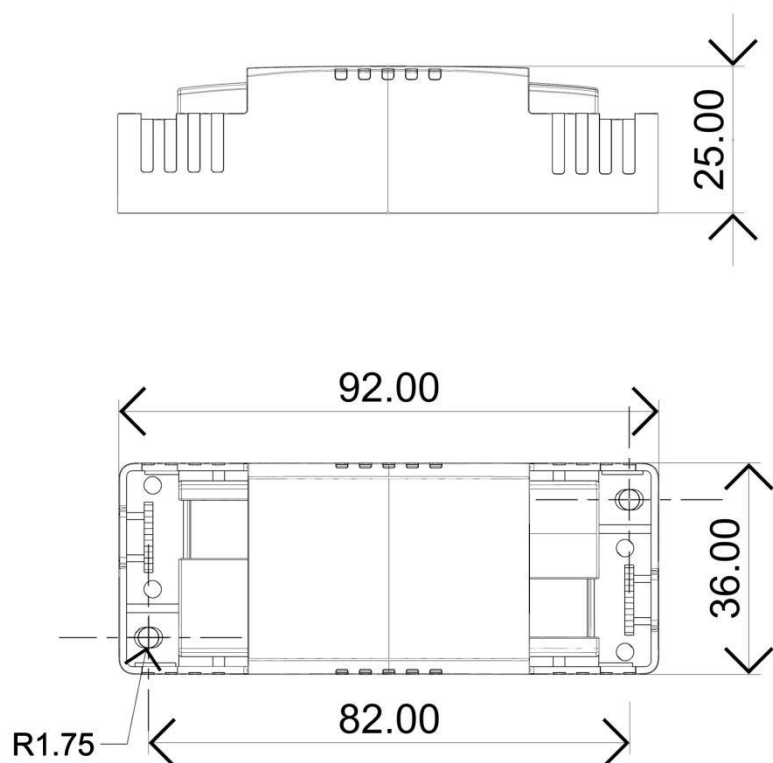
Number	Model number	Input			Output			
		Voltage (VAC)	Current (A)	Frequency (Hz)	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LC-8-120 SI ECO	220-24	0.08	50/60	120	30-42	59	5.1
2	LC-8-150 SI ECO	220-24	0.09	50/60	150	30-42	59	6.3
3	LC-8-180 SI ECO	220-24	0.11	50/60	180	30-42	59	7.6
4	LC-8-200 SI ECO	220-24	0.12	50/60	200	30-45	59	8.4
5	LC-8-300 SI ECO	220-24	0.1	50/60	300	15-24	40	7.2
6	LC-8-350 SI ECO	220-24	0.12	50/60	350	15-24	35	8.4

* Not mass production

◆ Wiring diagram



◆ 2D diagram



单位：MM

◆ Curve for LC-8-XXX SI ECO, $I_o=xxxmA$

◆ Operating window

Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15