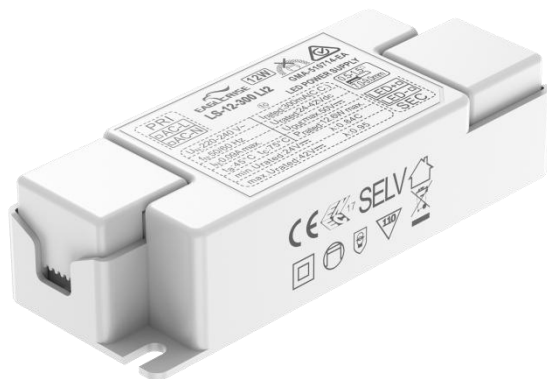


12W Constant Current power supply



■ Approve



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.95
- Efficiency : $\geq 79\%$
- 5 years warranty

Applications

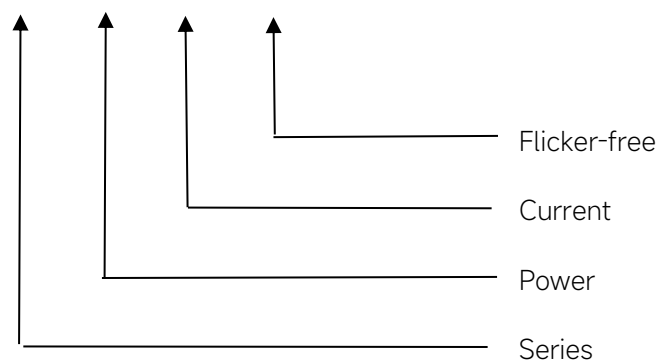
- LED panel、LED down light
LED spot light

◆ Description

LS-12-XXX LI2 is a 12W constant current LED driver with 250 to 500mA output current. With it's compact dimensions from 100 x 38 x 25mm it is easy to integrate in LED panel, spot, down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

LS-12-XXX LI2



◆ Specification

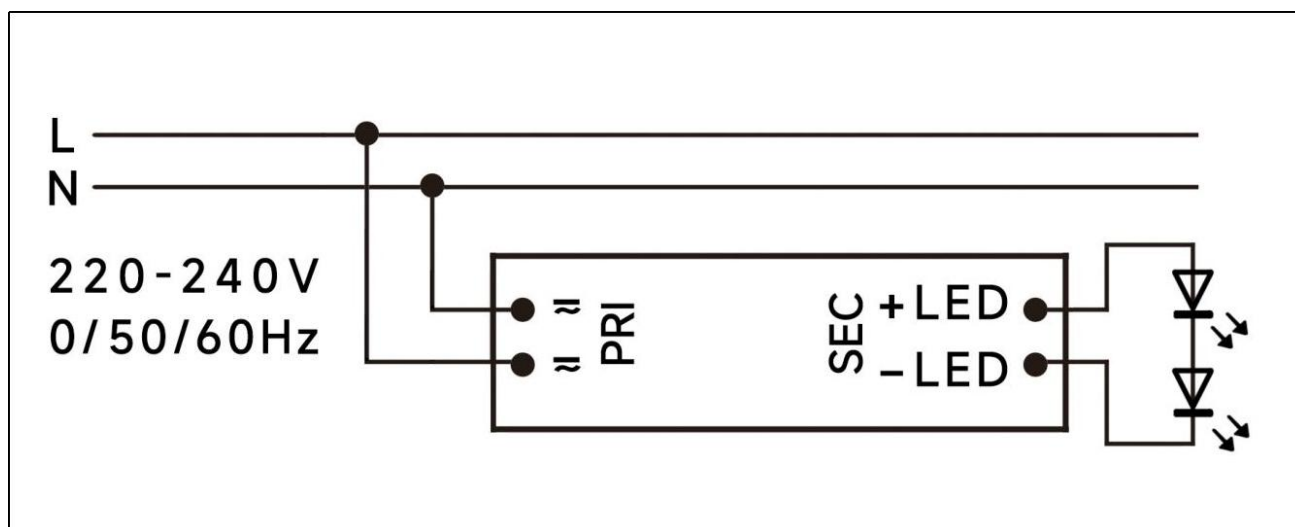
Output	Constant Current	250mA	300mA	350mA	500mA
	Voltage Range	24-42VDC		18-35VDC	14.5-24VDC
	Unload voltage Max.	50VDC		45VDC	34VDC
	Current Accuracy	±7%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±3%			
	SVM	≤0.4			
	P _{st}	≤1			
	Efficiency(Typ.)	≥79%			
Input	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	DC voltage range	176-280VDC			
	Frequency(Hz)	0/50/60 Hz			
	Displacement factor	≥0.7			
	Power Factor	0.95			
	Input Current max	0.09A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	< 20%			
Protection	Over Load Protection	103-120%			
		YES/Auto Resume			
	Over Voltage Protection	50VDC		45VDC	34VDC
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~~+45°C			
	Humidity	20%-90%RH			
	T _c	75°C			
	Storage Temperature	-25°C~~+60°C			
	Life time	> 50000h@T _c =75°C			
Surface	Dimension	100X38X25(LXWXH)mm			
Standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547				
Others	ErP	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.				

◆ Model list

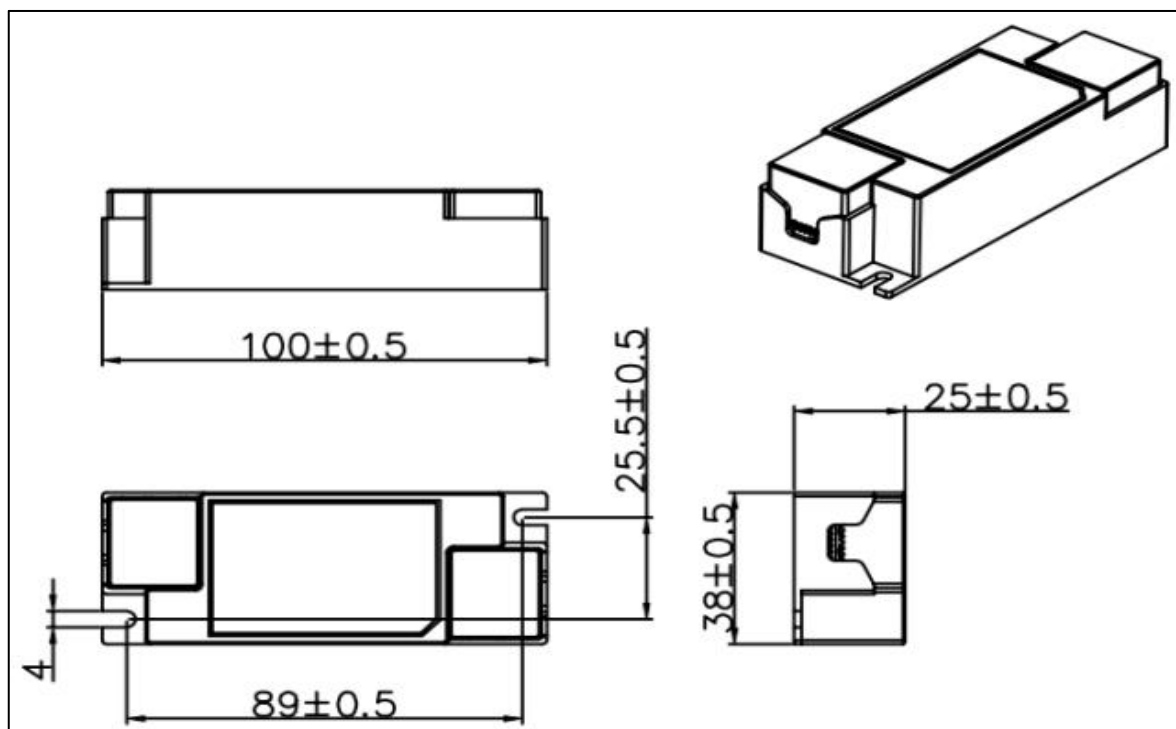
Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	*LS--12-250 LI2	250	24-42	50	10.5
2	*LS--12-300 LI2	300			12.6
3	*LS--12-350 LI2	350	18-35	45	12.3
*4	*LS--12-500 LI2	500	14.5-24	34	12

* Factory default

◆ Wiring diagram



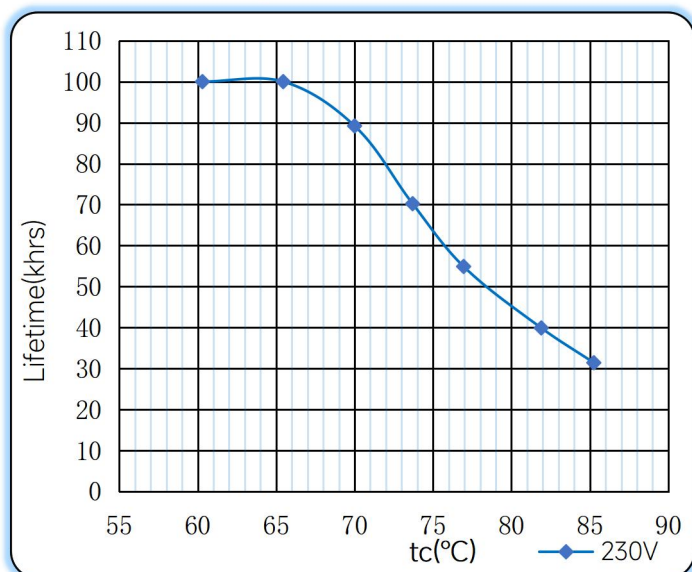
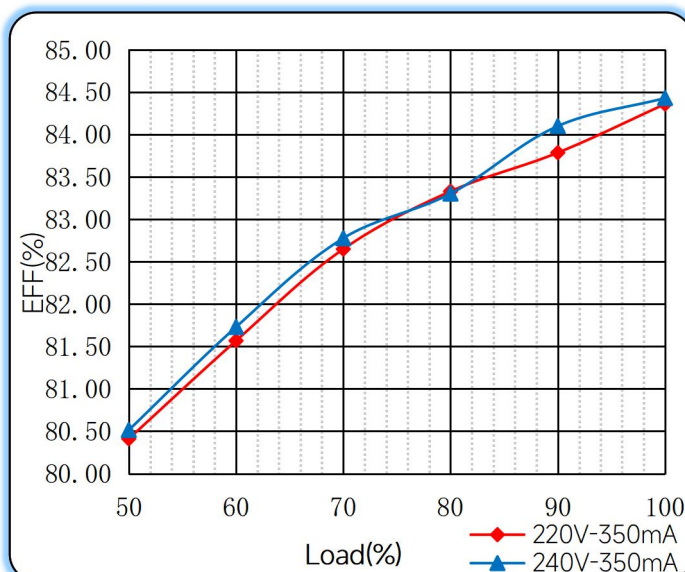
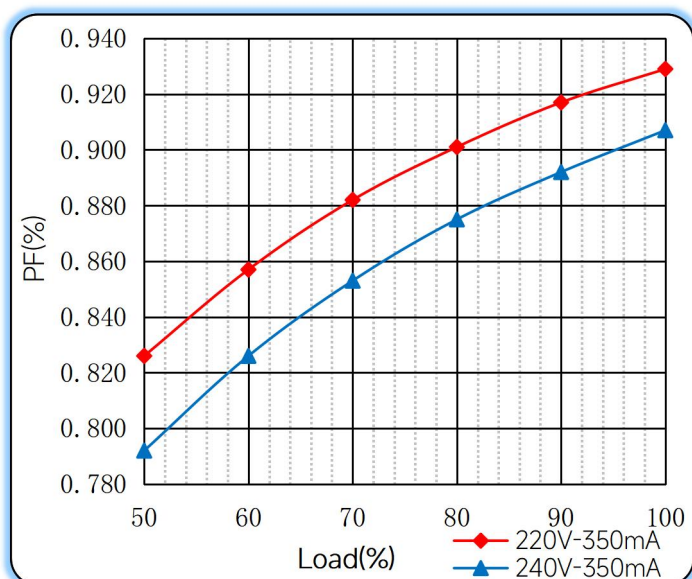
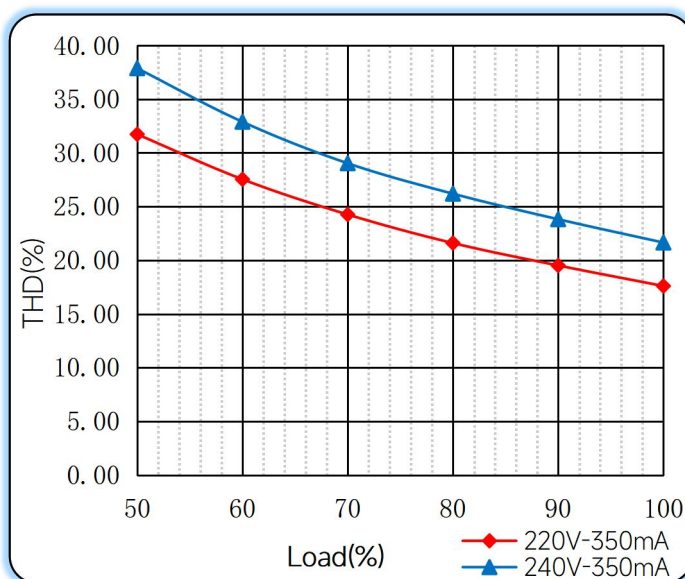
◆ 2D diagram



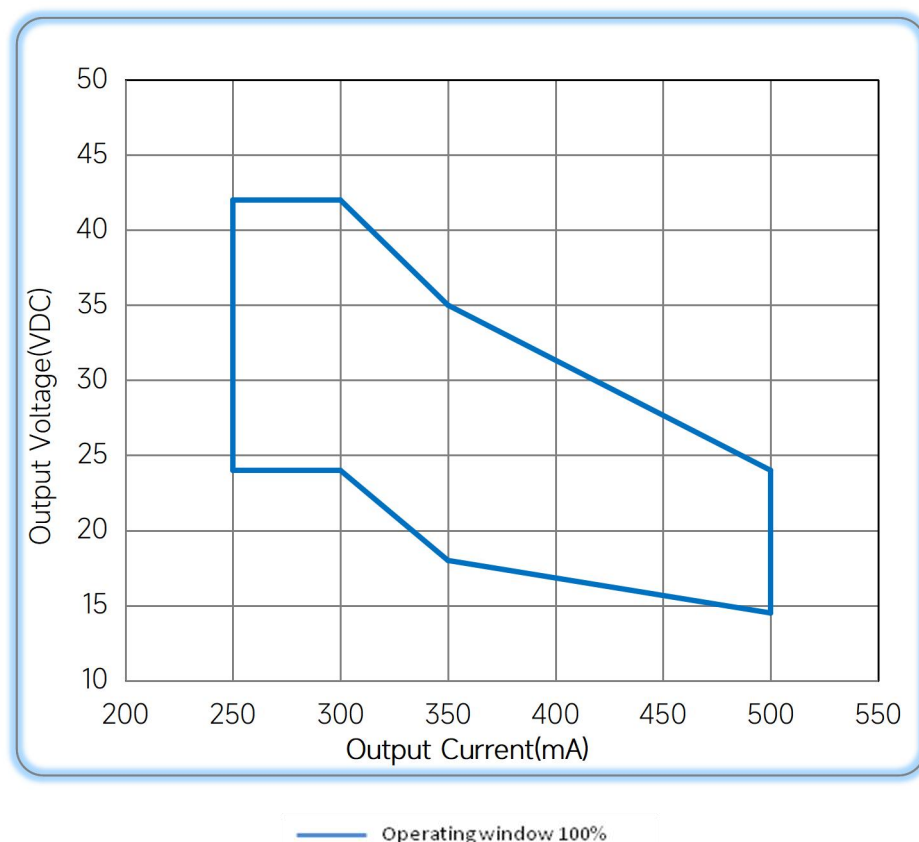
◆ Wiring & Connections

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

◆ Curve for LS-12-350 LI2, I_o=350mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

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

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