

12W LED Driver Constant Current



■ Approve



Features

- Class II, SELV, Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.6C
- Efficiency: $\geq 80\%$
- 5 years warranty

Applications

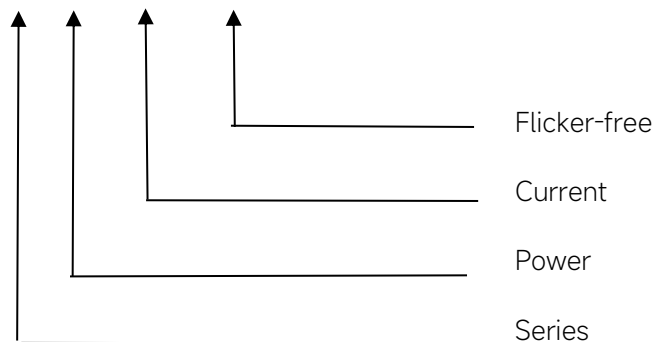
- Wall light

◆ Description

SS-12-XXX MX-G is a 12W constant current LED driver with 300 to 700mA output current. With its compact dimensions from 55x 41 x 21.5 mm it is easy to integrate in wall light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

SS-12-XXX MX-G



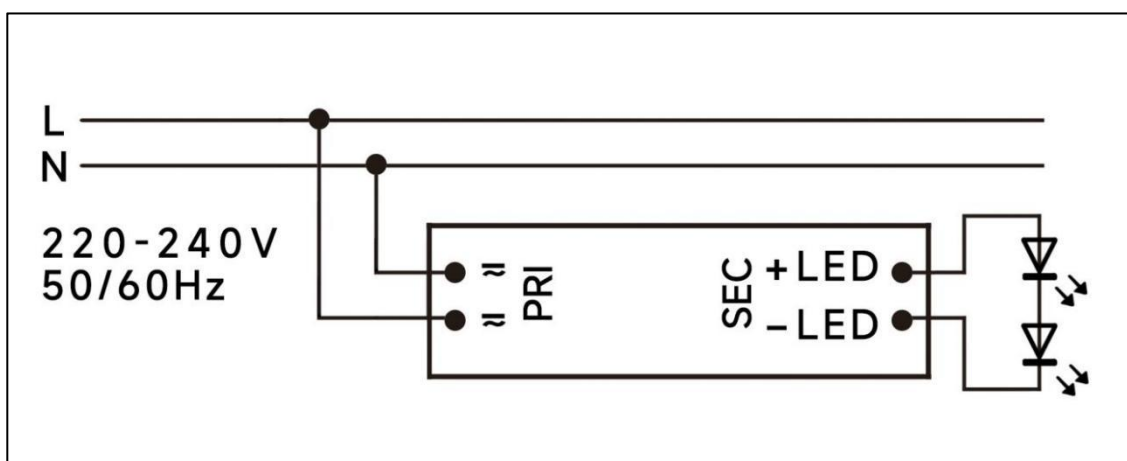
◆ Specification

Output	Constant Current	300mA	350mA	400mA	500mA	700mA
	Voltage Range	24-40V	20-34.5V	18-30V	14.5-24V	10-18V
	Unload voltage Max.	50V	45V	40V	34V	28V
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±5%				
	Output LF current ripple(≤120Hz)	±5%				
	SVM	≤0.4				
	Pst	≤1				
	Efficiency(Typ.)	≥80%@Full load,230V				
Input	Rated input voltage	220-240VAC				
	Range of input voltage	176-264VAC				
	Frequency(Hz)	50/60 Hz				
	Displacement factor	≥0.7				
	Power Factor	0.6C@Full load,230V				
	Start-up time	<1S				
	No Load Power	≤0.5W				
Protection	Over Load Protection	103-120%				
		YES/Auto Resume				
	Over Voltage Protection	>50VDC	>45VDC	>40VDC	>34VDC	>28VDC
		YES/Auto Resume				
Environment	Short circuit Protection	YES/Auto Resume				
	Operating Temperature	-20°C...+50°C				
	Humidity	20%-90%RH				
	Tc	85°C				
	Storage Temperature	-40°C~+60°C				
	Life time	> 50000h				
Surface	Dimension	55 x 41 x 21.5mm				
standards	EN 61347-1; EN61347-2-13; EN62384; EN61000-3-2 ; EN61000-3-3; EN 61547; EN 61000-4-2; EN 61000-4-5					
Others	ErP	EU 2019/2020				
	RoHS	RoHS (2011/65/EU) (EU)2015/863				
Note	1.All parameters not specially mentioned are measured at 240VAC 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.					

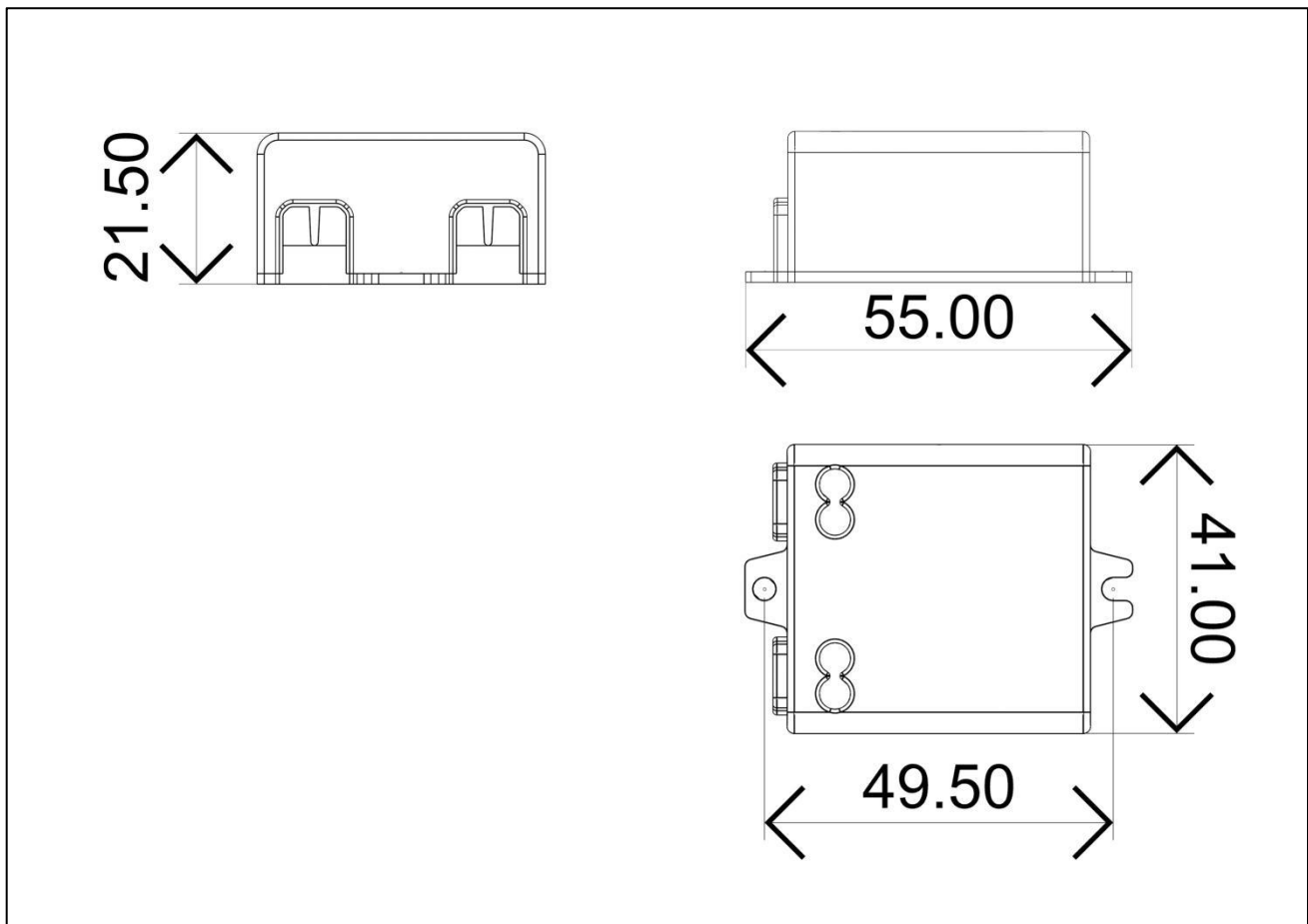
◆ Parameter

Number	Model number	Input			Output			
		Voltage (VAC)	Current (A)	Frequency (Hz)	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	SS-12-300 MX-G	220-240	0.19	50/60 Hz	300mA	24-40V	50	12
2	SS-12-350 MX-G	220-240	0.19	50/60 Hz	350mA	20-34.5VDC	45	12.1
3	SS-12-400 MX-G	220-240	0.19	50/60 Hz	400mA	18-30V	40	12
4	SS-12-500 MX-G	220-240	0.19	50/60 Hz	500mA	14.5-24VDC	34	12
5	SS-12-700 MX-G	220-240	0.19	50/60 Hz	700mA	10-18	28	12.6

◆ Wiring diagram



◆ 2D diagram

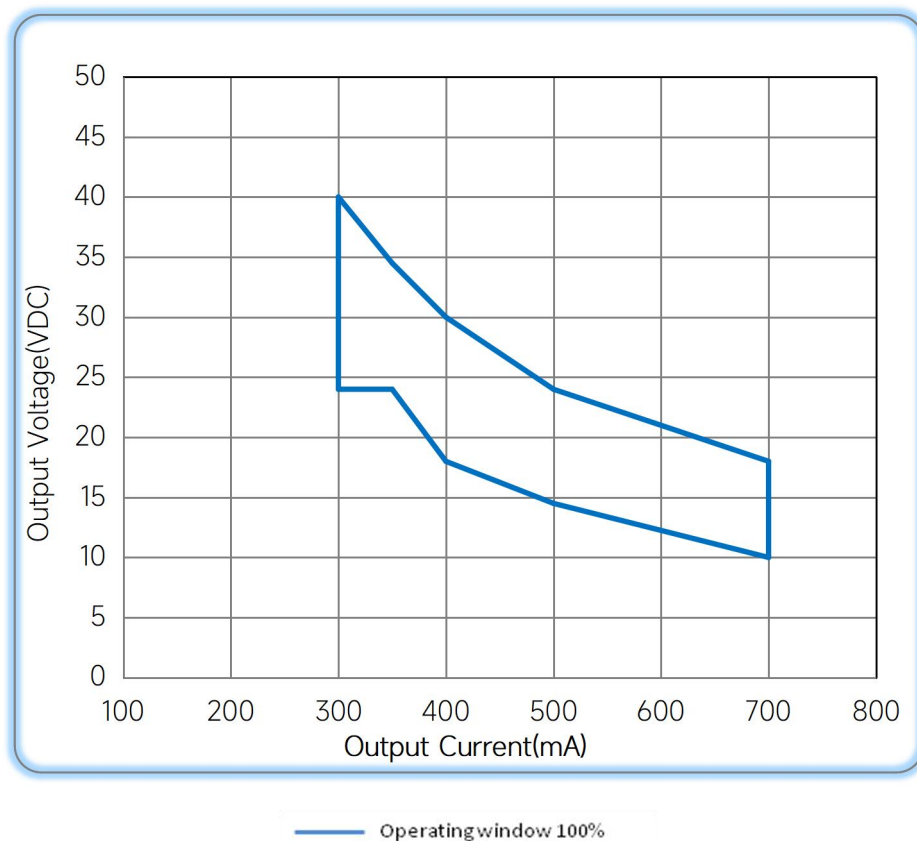


◆ Wiring & Connections

TYPE	Total Length	Outside Color	Inside Wires Color	Wire Model/Diameter
Input wire	0.36M	Black	Brown/Blue	H05RN-F/2x1.0mm ²
Output wire	0.36M	Black	Red/Black	H05RN-F/2x1.0mm ²

Note: Wire length of input and output can be changed as customer's requirement

◆ Operating window



◆ Revision Updates

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

Remark: The final interpretation of the contents of the specification belongs to Astralux.

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