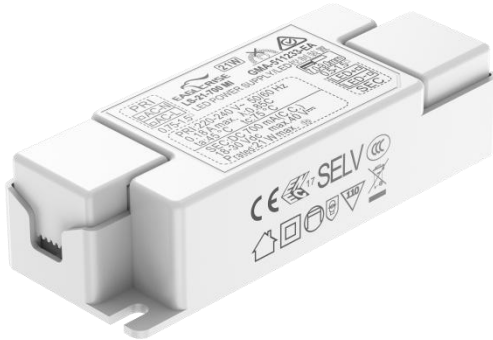


21W Constant Current -LS Series



■ Approve



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.85C
- Efficiency $\geq 85\%$
- 5 years warranty

Applications

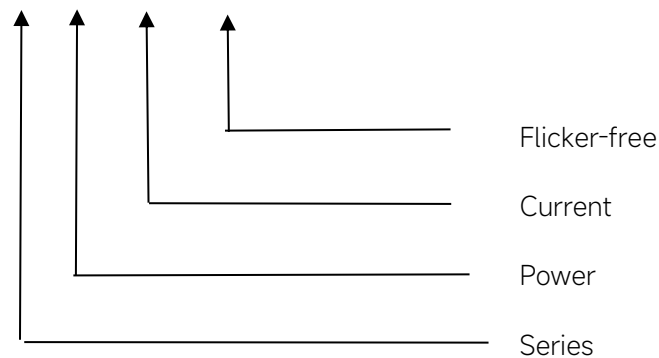
- LED panel, LED down light
LED spot light

◆ Description

LS-21-XXX MI is a 21W constant current LED driver with 300mA to 700mA 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-21-XXX MI



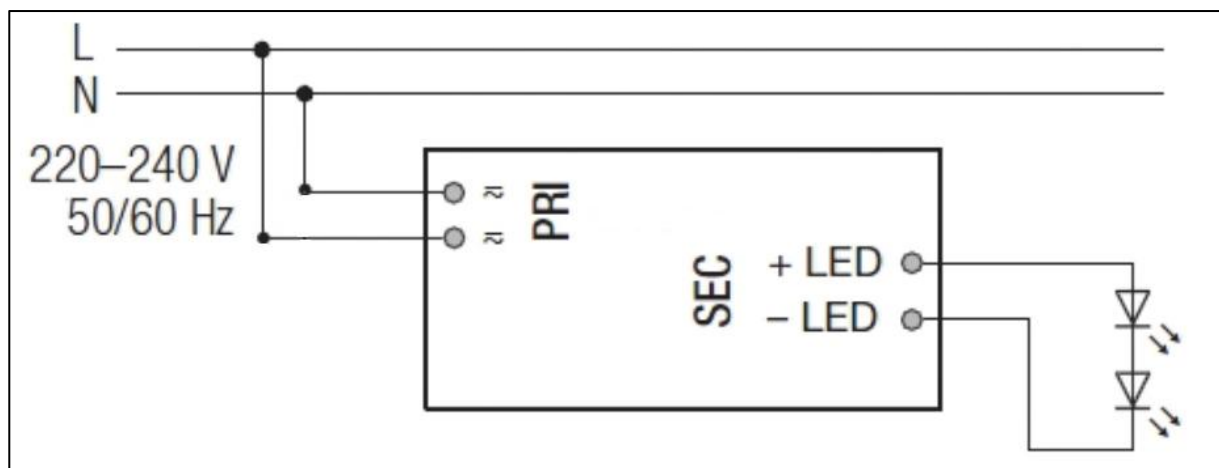
◆ Specification

Output	Constant Current	300mA	500mA	...	700mA
	Voltage Range	80VDC	53VDC	...	40VDC
	Unload voltage Max.	42-70VDC	24-42VDC	...	18-30VDC
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±5%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	≥85%			
Input	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	Rated input voltage(DC)	NA			
	Frequency(Hz)	50/60 Hz			
	Displacement factor	≥0.9			
	Power Factor	> 0.85C			
	Input Current max	0.18A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	<70%			
Protection	Over Load Protection	103-120%			
		YES/Auto Resume			
	Over Voltage Protection	> 80VDC	>53VDC	...	>40VDC
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~-+45°C			
	Humidity	20%-90%RH			
	Tc	75°C			
	Storage Temperature	-25°C~-+60°C			
	Life time	> 30000h@Tc=75°C,230VAC			
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.				

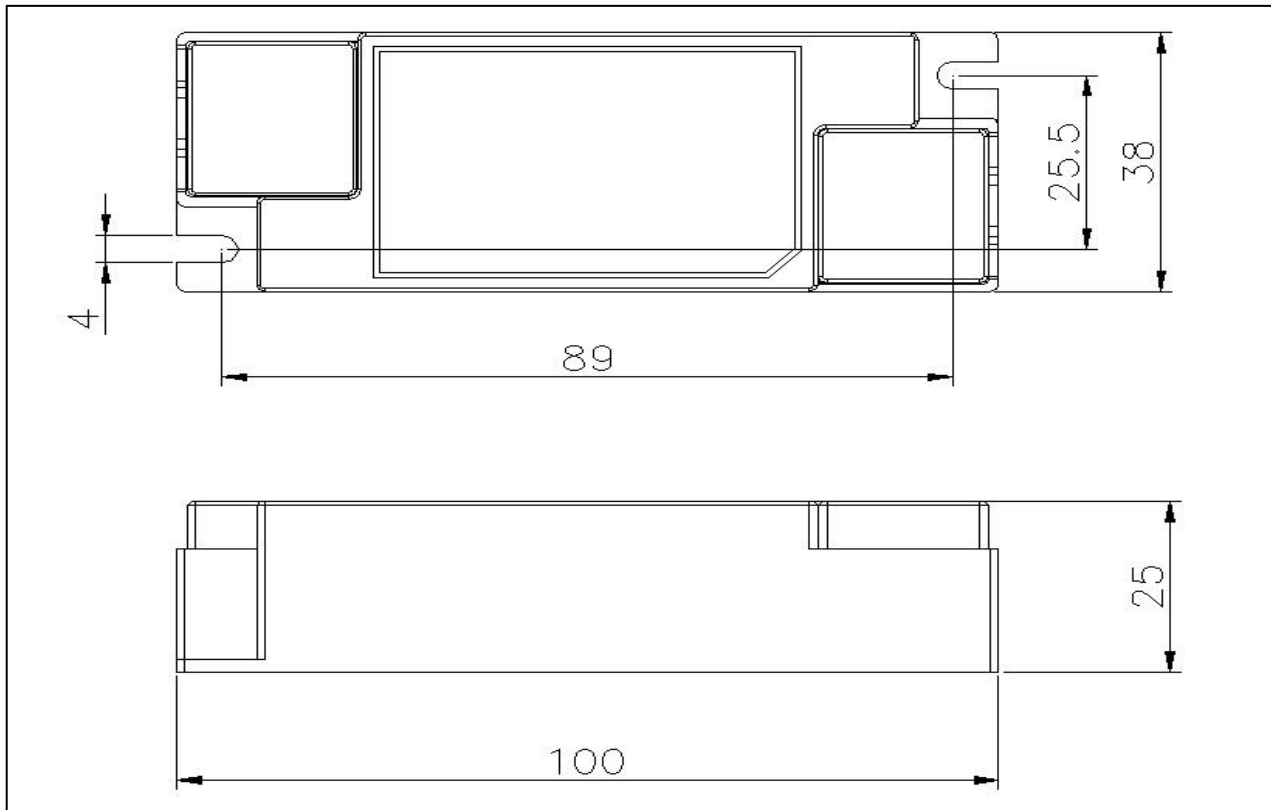
◆ Model list

Model number	Input			Output			P(W)
	Voltage (VAC)	Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	
LS-12-300 MI	220-240	0.18	50/60	300	30-42	50	12.6
LS-21-300 MI				300	42-70	80	21
LS-21-350 MI				350	36-60	70	21
LS-21-400 MI				400	30-50	60	20
LS-21-450 MI				450	27-46	58	20.7
LS-21-500 MI				500	24-42	53	21
LS-21-550 MI				550	23-38	50	20.9
LS-21-600 MI				600	21-35	45	21
LS-21-650 MI				650	20-32	42	20.8
LS-21-700 MI				700	18-30	40	21

◆ Wiring diagram



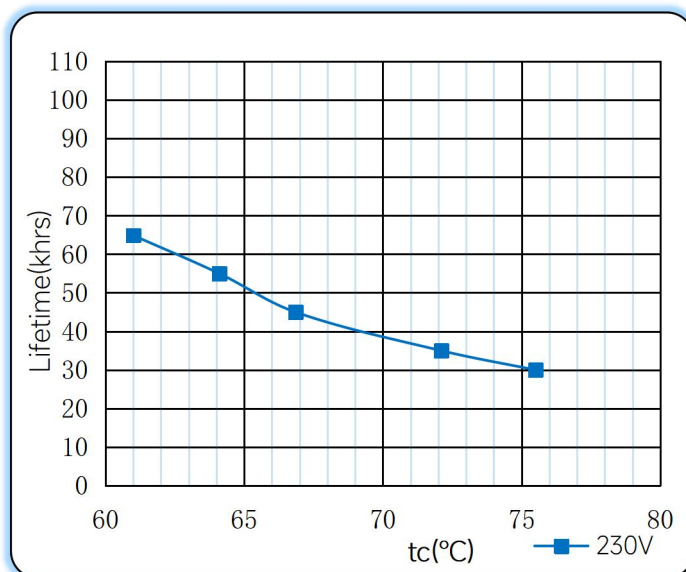
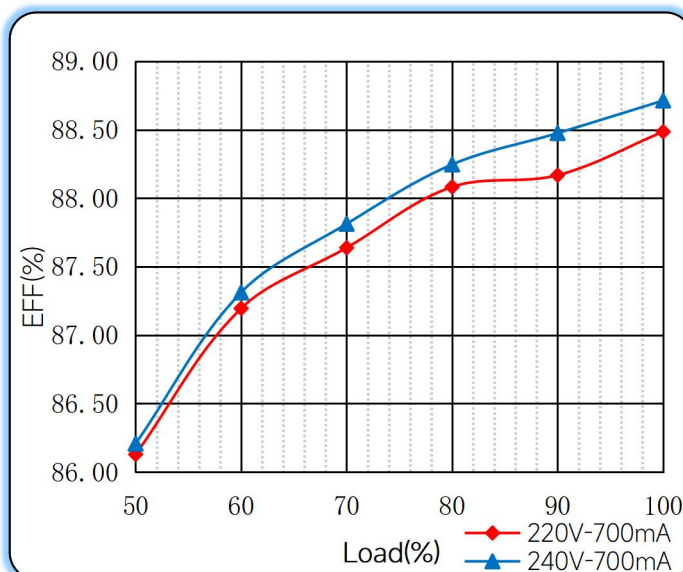
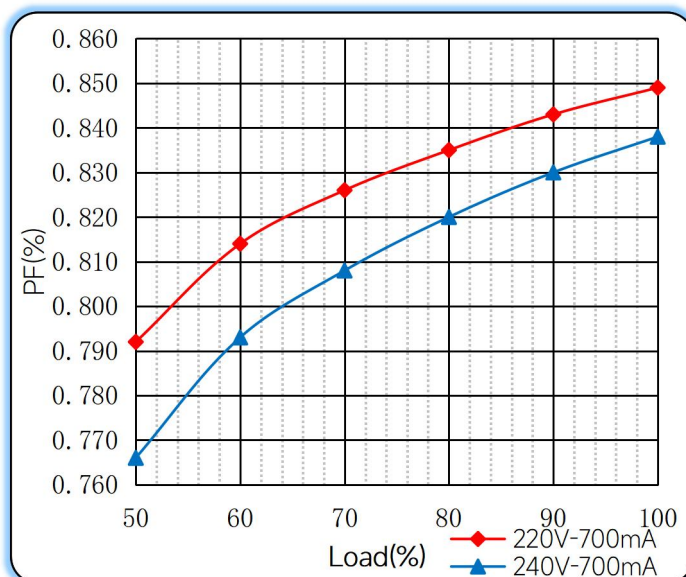
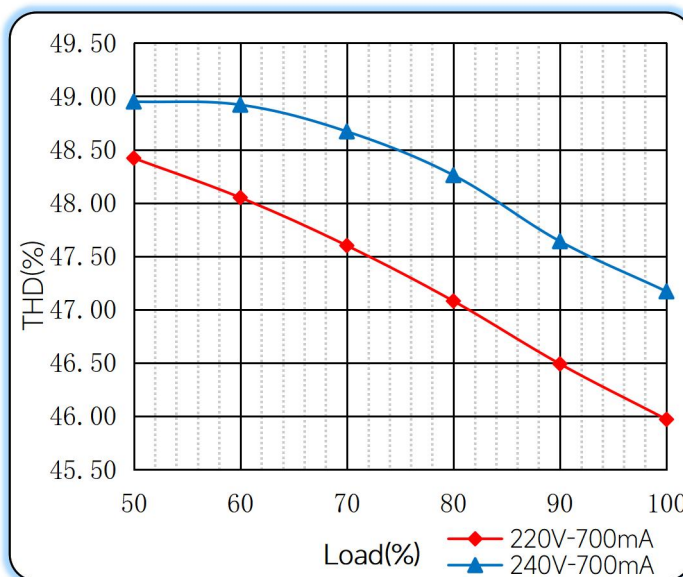
◆ 2D diagram



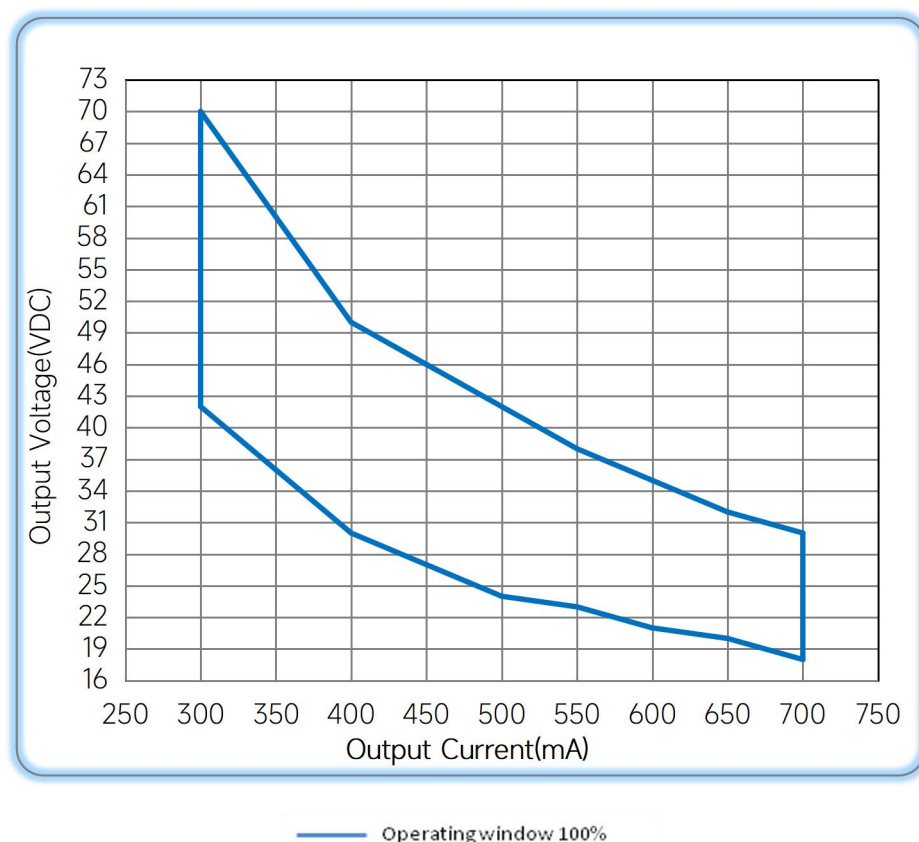
◆ Wiring & Connections

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-21-700 MI, $I_o=700\text{mA}$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

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

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

E-mail: sales@eaglerise.com

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



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Manual