

160W Constant Voltage-US Series

US-160-24 LI1



■Approve



■Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor >0.95
- Efficiency $\geq 92\%$
- 5 years warranty

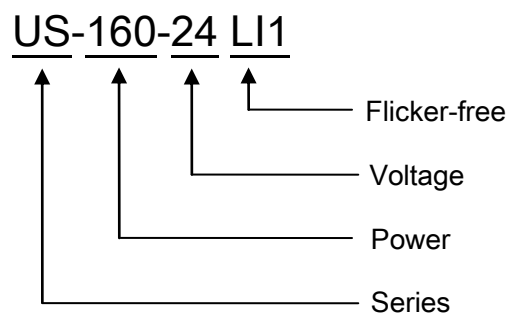
■Applications

- LED strips
- kitchen light
- bathroom light

■Description

US-160-24 LI1 is a 160W constant voltage LED driver that operates from 198-264Vac input with 24V output voltage. With its compact dimensions from 395 x 30.5 x 21.5mm it is easy to integrate in LED strips, kitchen light and bathroom light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

■Model code



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■ Specification

Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Range of input voltage(VDC)	176-250VDC
	Frequency(Hz)	0/50/60 Hz
	Power Factor	> 0.95@Full load, 230VAC
	Input Current max	1A MAX. @Full Load, 198VAC
	Start-up time	< 0.5S
	Unload Power Consumption	≤0.5W
	Inrush Current	60A Max. @ Full Load, 230VAC
	THD	< 8% Typ. @Full Load, 230VAC
	Leakage Current	< 0.7mA(240VAC)
Output	Constant Voltage	24VDC
	Current Range	6.67A Max.
	Rated power	160W Max.
	Voltage Accuracy	±5%
	Voltage Regulation	±1% @Full Load
	Load Regulation	±1%
	Hold-up Time	≥5ms/230VAC @ full load
	Ripple& Noise *Note.2	≤±2%@Full Load, 240VAC
	Output LF current ripple(<120Hz)	≤±1%
	Efficiency(Typ.)	≥92%
Protection	Over Load Protection	105-150% rated output power Protection type: Auto Resume
	Short circuit Protection	Protection type: Auto Resume
	Over Temperature protection	Protection type: Auto Resume
Environment	Operating Temperature	-20°C...+45°C
	tc	80°C
	Storage Temperature	-20°C...+60°C
	Life time	> 50,000h@Full Load , 230V, ta=45°C
	Temperature coefficient	±0.03%/°C(0-45°C)
	Humidity	20%-90%RH
Others	Dimension	395X30.5X21.5(LXWXH)mm
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62493; EN62384
	Withstand voltage	Input-Output : 3750V/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 —1000V;
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.	

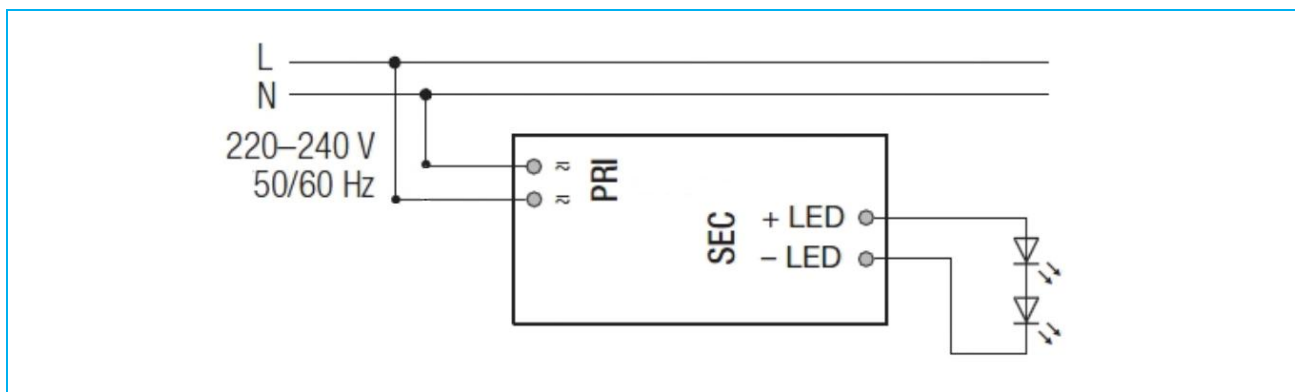
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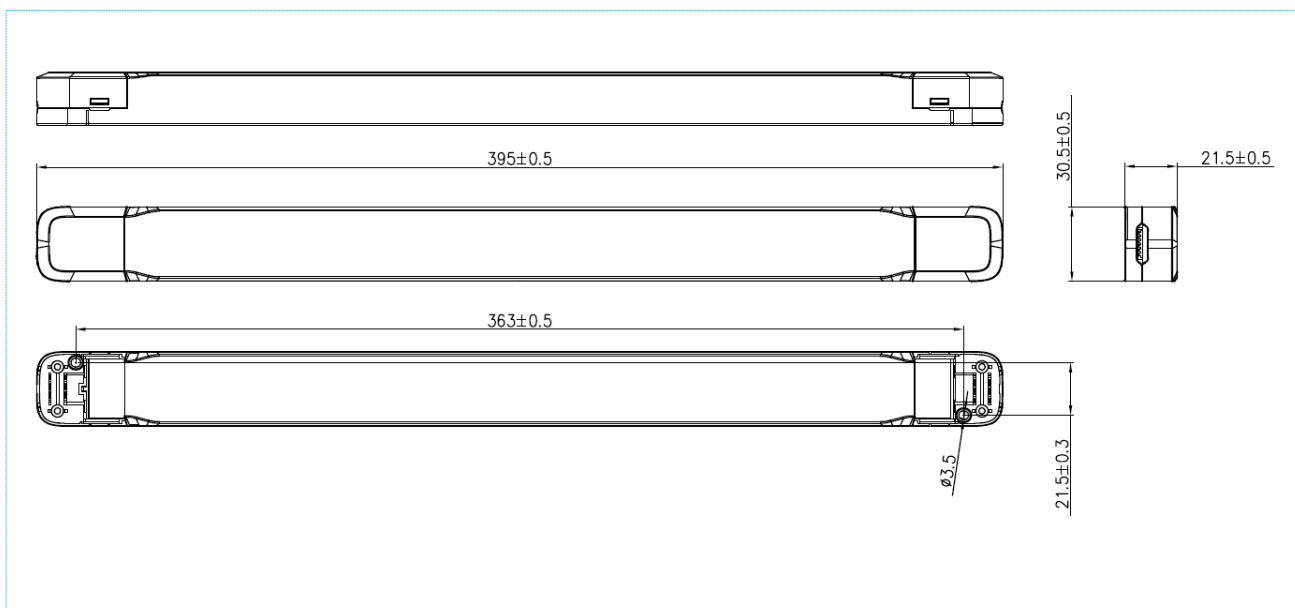
Model list

No.	Model number	Input			Output		
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant voltage (VDC)	Normal working current (A)	P _{rated} (W)
1	US-160-24 LI1	220-240	1	50/60	24	0-6.67	160

Wiring diagram



2D diagram



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■Operating window

