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US-100-XX LR1



■Approve



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor >0.95
- Efficiency ≥88%
- 5 years warranty

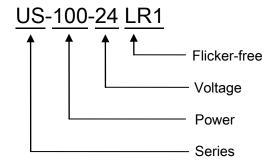
■Applications

- LED strips
- kitchen light
- bathroom light

Description

US-100-XX LR1 is a 100W constant voltage LED driver that operates from 198-264Vac input with 12V 24V or 48V output voltage. With it's slim dimensions from 365 x 30 x 18mm 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, over Load and over temperature.

■Model code



US-100-XX LR1

■Specification

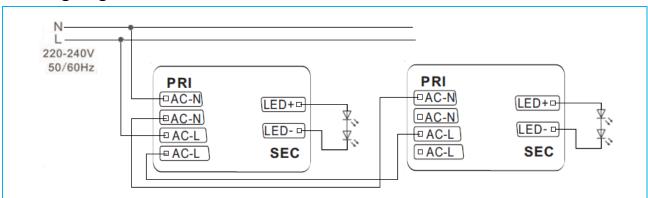
Input	Rated input voltage	220-240VAC					
	Range of input voltage	198-264VAC					
	Range of input voltage(VDC)	176-250VDC					
	Frequency(Hz)	0/50/60 Hz					
	Power Factor	> 0.95@Full Load, 230VAC					
	Input Current max	0.78A MAX. @Full Load,198VAC					
	Start-up time	<0.58					
	Unload Power Consumption	≤0.5W					
	Inrush Current	60A Max. @Full Load, 230VAC					
	THD	< 8% Typ. @Full Load, 230VAC					
	Leakage Current	< 0.7mA(240VAC)					
	Constant Voltage	12VDC	24VDC	48VDC			
	Current Range	0-8.33A	0-4.17A	0-2.08A			
	Rated power	100W Max.					
	Voltage Accuracy	±5%					
	Voltage Regulation	±1% @Full Load					
Output	Load Regulation	±2%					
	Hold-up Time	20ms max.@Full Load					
	Ripple& Noise *Note.2	≤±2%@Full Load,230VAC					
	Output LF current ripple(<120Hz)	≤±1%					
	Efficiency(Typ.)	≥88%	≥91%	≥91%			
	Over Load Protection	105-150%					
Protecti- on	Over Load Protection	Protection type: Auto Resume					
	Short circuit Protection	Protection type: Auto Resume					
	Over Temperature protection	Protection type: Auto Resume after restart					
	Operating Temperature	-20°C+45°C					
	tc	90°C	85°C	85°C			
	Storage Temperature	-40°C+60°C					
Environ-	Life time	>50,000h@Full Load ,	> 50,000h@Full Load ,	> 50,000h@Full Load ,			
ment		230V, ta=40°C	230V, ta=45°C	230V, ta=45°C			
	Temperature coefficient	±0.03%/°C(0-45°C)					
	Humidity	20%-90%RH					
Others	Dimension	365X30X18(LXWXH)mm					
	Safety standards	EN 61347-1; EN61347-2-13; EN62493; EN62384					
Safety & EMC	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	, , ,	d are measured at 230VAC input , full load and 25°C of ambient temperature. of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.					

US-100-XX LR1

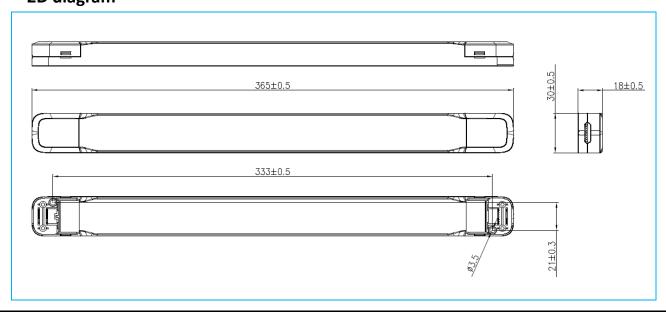
■Model list

		Input			Output		
No.	Model number	Voltage (VAC)	Current (A)	Frequency (Hz)	Constant voltage (VDC)	Normal working current (A)	P _{rated} (W)
1	US-100-12 LR1	220-240	0.78	50/60	12	0-8.33	100
2	US-100-24 LR1	220-240	0.78	50/60	24	0-4.17	100
3	US-100-48 LR1	220-240	0.78	50/60	48	0-2.08	100

■Wiring diagram



■2D diagram



US-100-XX LR1

