# Constant Voltage LED Power Supply SL60-12VF-1 SL60-24VF-1





#### Product description

SL60-12/24VF-1 is an indoor constant voltage power supply. Its input voltage range is 198-264Vac, with the high efficiency up to 88%, fanless design, working in the temperature range of - 20 ° C to + 45° C under free air convection. It has ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, with all-round protection functions which not only greatly improves the reliability of the product, but also ensures the life cycle of product. This series of products designed for LED lighting, applied to indoor lighting design, has a high cost performance.

#### Standards

EN61347-1 EN61347-2-13 EN61547 EN55015 EN61000-3-2 EN62493

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#### Characteristics

- European AC input(220-240VAC)
- Built-in active PFC function
- IP20
- Suitable for dry indoor environment
- Protections: Short circuit / Over voltage / Over temperature/Over load
- Adopt plastic case and internal glue filling
- Compliance to worldwide safety regulations for lighting
- 5 years warranty



### Specifications

Model		SL60-12/24VF-1					
	turn on time(S)	<0.5\$	<0.5\$				
	output power(W)		60W				
	output voltage(V)	12V	24V				
	output voltage tolerance		$\leq \pm 5\%$				
Output	ripple voltage(mV)	≪380mVp-p	≪380mVp-p				
	Line Regulation		$\pm 1\%$				
	Load Regulation		±2%				
	working current range(A)	0-5	0-2.5				
	rated DC supply voltage(Vdc)	NA					
	rated supply voltage(Vac)	220-240V					
	voltage range(Vac)	198-264V					
	line frequency(Hz)		50/60HZ				
	input current(A)	<0.5A	<0.5A				
Input	efficiency(TYPE)	86%@full load,230Va	86%@full load,230Va				
inpor	average efficiency(TYPE) 3						
	no load power consumption(W)	≤0.5W					
	power factor	0.95@230Vac, full load					
	Displacement factor	0.95@230Vac, full load					
	THD(typ.) THD	8%					
	inrush current(lpk)	70A/162US@50%					
	Leakage current (mA)	0.75mA@240Vac 60Hz					
	short circuit protection	hiccup mode, restart automatically after fault correction.					
	over load protection	hiccup mode, restart automatically after fault correction.					
	Over voltage protection	hiccup mode, restart automatically after fault correction.					
Protectio	<b>n</b> Over temperature protection	Latch off					
	surge capacity	L-N: 1KV					
	Withstand voltage	Input-Output: 3750V/5mA/1min					
	Ta(C)	-2045(See derating curve)					
	Tc max.(C)	max.90					
Ambient and Life	Storage Temperature(C)	-40+85°C					
	ambient humidity range	10%90%RH,					
		t condensing					
	nominal life-time(hrs)		50'000@Ta				



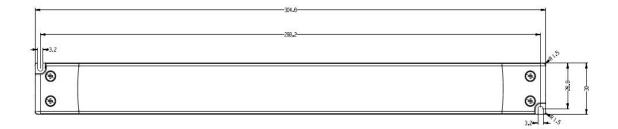
	dimensions (L×W×H)(mm)	304.6mm * 30mm * 16.7mm				
	weight(g) 175±5g					
Other	casing material	plastics				
e mer	housing colour	white				
	type of protection	IP20				
	protection class	Class 2				
	certificate					
Note	<ul> <li>1.Tolerance:includes set up tolerance, line regulation and load regulation.</li> <li>2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs.</li> <li>3.Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values.</li> <li>4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature.</li> <li>5.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> </ul>					



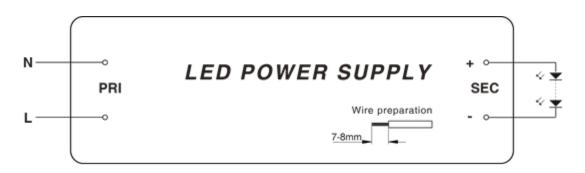
## Dimensions(mm)







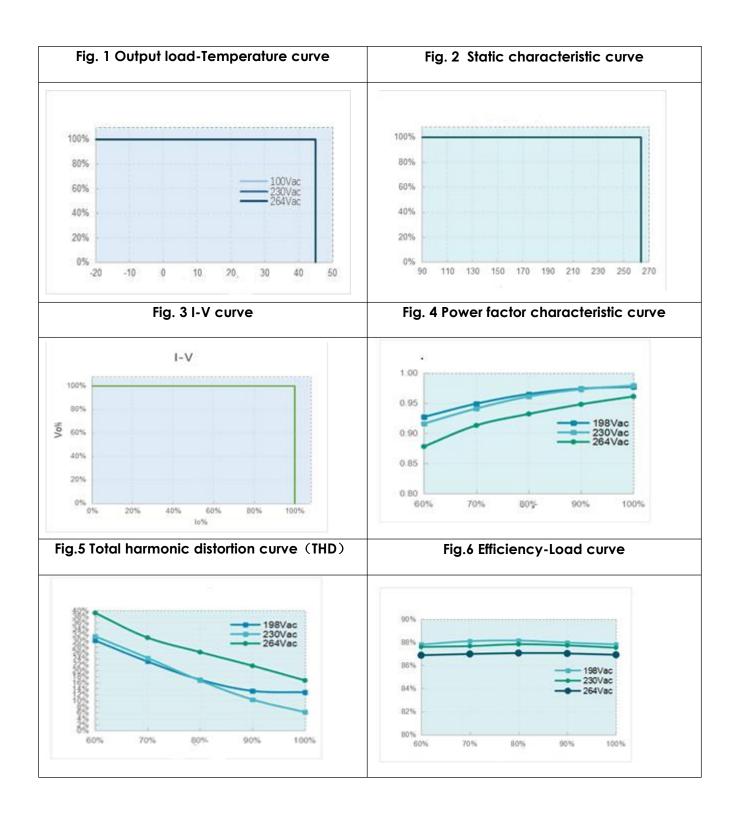
### Wiring Diagram



AC	Connector: H03VVH2-F 2×0.75mm <sup>2</sup>
DC	Connector: H05VVH2-F 2×1.0mm <sup>2</sup>

### Electrical curves





MCBS

MCBS	B10	B13	B16	B20	C10	C13	C16	C20
Model								

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SL60-12VF-1	13	17	21	26	16	21	26	33
SL60-24VF-1	13	17	21	26	16	21	26	33

## Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SL60-12VF-1			
SL60-24VF-1			

## Revision history

Date	Rev.	Remark
2023.3.24	A1	Initial release.

