# Constant Voltage LED Power Supply SPF60-24VSP





## Product description

SPF60-24VSP is an indoor constant voltage LED driver, with an input voltage range of 220-240Vac, and a maximum conversion efficiency of up to 88.5%, It operates in the temperature range of -20°C to+70°C natural cooling and cooling casing, and has ultra-high power factor, low standby power consumption, and comprehensive protection functions, It not only greatly improves product reliability, but also ensures product life cycle. Comply with global lighting safety regulations, ensuring the safety of both users and lighting systems during installation.

### **Standards**

EN61347-1:2015 EN 61347-2-13:2014+A1 EN62493:2015 AS/NZS 61347.2.13 EN 61347-2-13:2014 +A1 EN61347-1:2015

#### Characteristics

- European AC input (220-240VAC)
- Waterproof Grade IP67
- Suitable for indoor environment
- Protections:
   Short circuit Over load Open circuit
- Adopt plastic case and internal glue filling
- Compliance to worldwide safety regulations for lighting

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## Specifications

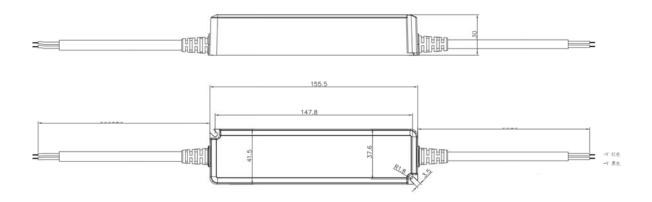
Model		SPF60-24VSP			
	turn on time(S)	<0.5			
	output power(W)	60			
	output voltage(V)	24			
	output voltage tolerance	≤±5%			
	ripple voltage(mV)	240			
	Line Regulation	3%			
	Load Regulation	3%			
Output	working current range(A)	0-2.5			
o anpan	SVM	≪0.4			
	Pst	≤1			
	dimming type	N/A			
	dimming range	N/A			
	rated DC supply voltage(Vdc)	-			
	rated supply voltage(Vac)	220-240			
	voltage range(Vac)	198-264			
	line frequency(Hz)	50/60			
	input current(A)	0.3			
	efficiency	88.5%@full load			
	average efficiency 3	≥87%			
	no load power consumption(W)	≤0.5W			
Input	power factor	0.95@full load			
mpat	Displacement factor	0.95			
	THD(typ.)	10%			
	inrush current(lpk)	36A/230uS			
	Leakage current	<0.7mA			
	short circuit protection	hiccup mode, restart automatically after fault correction.			
Protection	over load protection	exceed maximum rated load times 1.2			
riolection	Over voltage protection	-			
	Over temperature protection	-			
	surge capacity	L-N: 1KV			
	Withstand voltage	Input-Output: 3750V/5mA/1min			
Ambient and Life	Ta(C)	-2070			
	Tc max.(C)	max.90			
	Storage Temperature(C)	-4080			
	ambient humidity range	10%95%RH, Not condensing			
	nominal life-time(hrs)	50'000@ <b>T</b> a			



Other	dimensions (L×W×H)(mm)	155.5*41.5*30
	weight(g)	350
	casing material	Plastic
	housing colour	White
	type of protection	IP67
	protection class	class II
	certificate	CB CE ENEC
Note	1.Tolerance:includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 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. 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 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.	



## Dimensions(mm)



# Wiring Diagram

DC

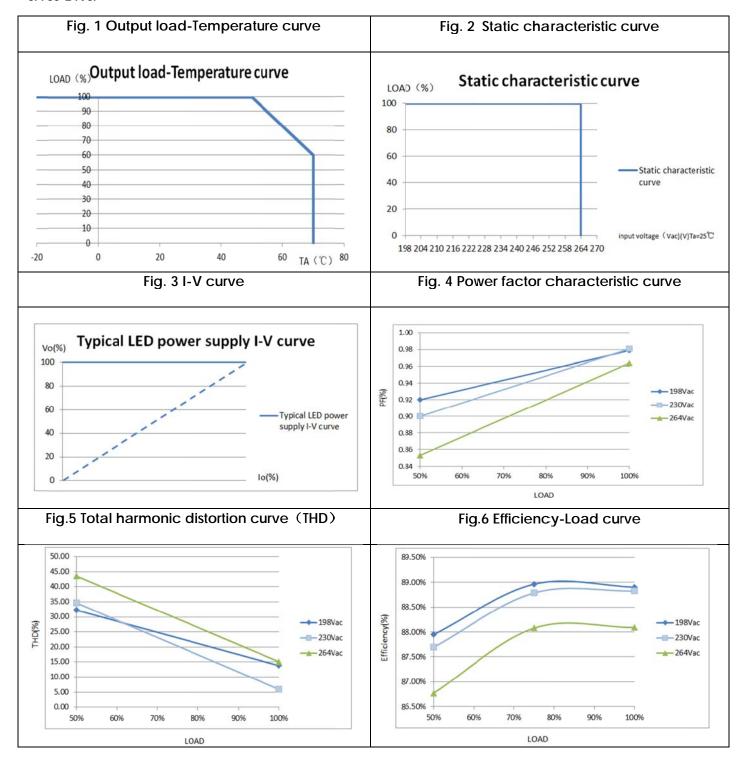


SR AWM1007 UL 16AWG\*1 80°C 300V Red/Black SNP-023002



## Electrical curves

SPF60-24VSP





## MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SPF60-24VSP	8	10	13	16	13	18	22	28

## Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SPF60-24VSP			

# Dimmer Compatibility Chart

#### Fill in thyristor TRIAC DIMMABLE selection

Manufact urer	Dimmer Mode I

Conduction angle: 30 degrees(min.) / 180 degrees(max.)



# Revision history

Date	Rev.	Remark
2023.4.18	A1	Initial release.

