# Constant Voltage LED Power Supply SPF24-12VSP SPF24--24VSP





## Product description

SPF24 is a constant voltage IP67 LED driver with an input voltage range of 220-240Vac and a conversion efficiency up to 86%. It works in the temperature range of -20 ° C~+45 ° C natural cooling radiator housing, and has ultra-high power factor, ultra-low Total harmonic distortion, low standby power consumption, and all-round protection functions, which not only greatly improves the reliability of the product, but also ensures the Product lifecycle. Comply with global lighting safety regulations, ensuring the safety of both users and lighting systems during installation.

#### Standards

EN61347-1 EN61347-2-13 AS/NZS 61347.2.13 EN55015 EN61000-3-2 EN62493

### Characteristics

- AC input range (220-240VAC)
- With active PFC function
- Waterproof IP67
- Suitable for indoor environments
- Protection type: short circuit/overvoltage protection
- Using plastic shell, internal potting
- Conforms to world lighting safety regulations
- Warranty 5 years

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## Specifications

Model		SPF24-24VSP	SPF24-12VSP	
	turn on time(S)	<0.5	<0.5	
	output power(W)	24	24	
	output voltage(V)	24	12	
	output voltage tolerance	±5%	±5%	
	ripple voltage(mV)	135	135	
Output	Line Regulation	±3%	±3%	
	Load Regulation	±3%	±3%	
	working current range(A)	0-1	0-2	
	SVM	SVM≤0.4	SVM≤0.4	
	Pst	Pst LM≤1	Pst LM≤1	
	dimming type	N/A	N/A	
	dimming range	N/A	N/A	
	rated DC supply voltage(Vdc)			
	rated supply voltage(Vac)	220-240	220-240	
	voltage range(Vac)	198-264	198-264	
	line frequency(Hz)	50/60	50/60	
lmm.uk	input current(A)	0.126/230V	0.126/230V	
Input	efficiency	≥86%@full load	≥86%@full load	
	average efficiency 3	≥86%	≥86%	
	no load power consumption(W)	≤0.5W	≤0.5W	
	power factor	0.95@full load	0.95@full load	
	THD(typ.)	10%	10%	
	inrush current(Ipk)	25.7A/306uS	25.7A/306uS	
	Leakage current			
	short circuit protection	hiccup mode, restart automatically after fault correction.	hiccup mode, restart automatically after fault correction.	
	over load protection	exceed maximum rated load times 1.2	exceed maximum rated load times 1.2	
	Over voltage protection	N/A	N/A	
Protection	Over temperature protection	N/A	N/A	
	surge capacity	L-N: 500V	M-N: 500V	



	Withstand voltage	Input-Output: 3750V/5mA/1min	Input-Output: 3750V/5mA/1min	
Ambient and Life	Ta(C)	-2045	-2045	
	Tc max.(C)	max.90	max.90	
	Storage Temperature(C)	-3080	-3080	
	ambient humidity range	5%85%RH, Not condensing	5%85%RH, Not condensing	
	nominal life-time(hrs)	30'000@Ta	30'000@Ta	
	dimensions (L×W×H)(mm)	110*40*29.5	110*40*29.5	
	weight(g)	266G	266G	
Othor	casing material	Plastic	Plastic	
Other	housing colour	White	White	
	type of protection	IP67	IP67	
	protection class	class II	class II	
	certificate			

- 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.

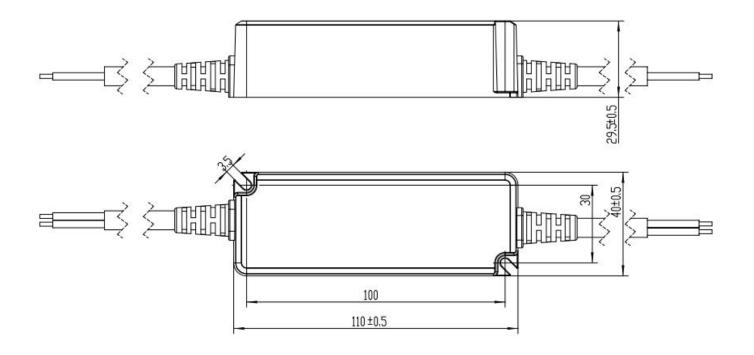
#### Note

- 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)

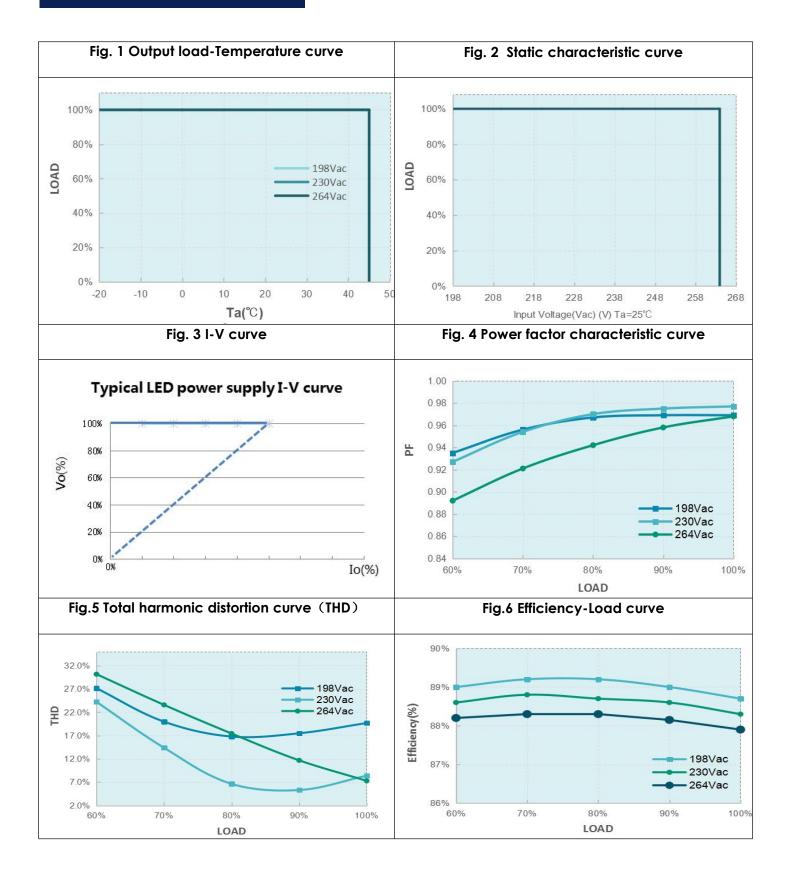


Remark:	
AC	H05RN-F 2*1.0mm2 VDE
DC	SVT 18AWG*2C 105℃ 300V





## Electrical curves





## MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SPF24-12VSP	21	28	34	43	36	47	58	72
SPF24-24VSP	26	34	42	53	44	58	71	88

# Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SPF24-12VSP			
SPF24-24VSP			

# Revision history

Date	Rev.	Remark
2023.1.16	V0.01	Initial release.

