Constant Voltage LED Power Supply SPF35-12VSP SPF35-24VSP



Product description

SPF35 series is a constant voltage IP67 LED driver with a rated input voltage range of 220-240Vac and a conversion efficiency up to 86%. High power factor, low standby power consumption, and comprehensive protection functions not only greatly improve product reliability, but also ensure product life cycle. This series of products is designed for LED lighting design and applied to indoor lighting. It is suitable for various application environments in almost all indoor places where LED luminaires can be installed. Comply with the world's lighting equipment safety regulations, and at the same time ensure the safety of users and lighting systems during installation.

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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

- AC input voltage (220-240VAC)
- Waterproof IP67
- Suitable for indoor environments
- Protection type: short circuit/overload/open circuit protection
- Plastic case
- Conforms to world lighting safety regulations
- •5 years warranty



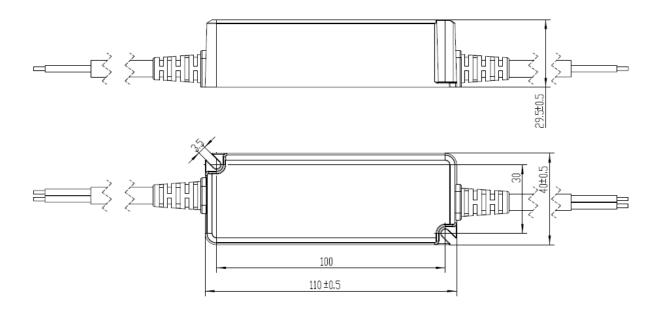
Specifications

Model		SPF35-12VSP	SPF35-24VSP	
	Turn on time(S)	<0.5	<0.5	
	Output power(W)	35	35	
	Output voltage(V)	12	24	
	Output voltage tolerance	±5%	±5%	
	Ripple voltage(mV)	240	240	
	Line Regulation	3%	3%	
	Load Regulation	3%	3%	
Output	working current range(A)	0-2.9	0-1.45	
	SVM	≤0.4	≤0.4	
	Pst	≤1	≤1	
	Dimming type	N/A	N/A	
	Dimming range Rated DC supply voltage(Vdc)	N/A	N/A	
		-	-	
	Rated supply voltage(Vac)	220-240	220-240	
	Voltage range(Vac)	198-264	198-264	
	Line frequency(Hz)	50/60	50/60	
	Input current(A)	0.18	0.18	
	Efficiency	86%@full load	87%@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	
Input	Displacement factor	≥0.9	≥0.9	
	THD(typ.) THD	10%	10%	
	inrush current(lpk) (lpk)	21A/175uS	21A/175uS	
	Leakage current	<0.7mA	<0.7mA	
Protection	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 1.3	
	Over voltage protection	-	-	
	Over temperature protection	IC detect	IC detect	
	Surge capacity	L-N: 1KV	L-N: 1KV	
	Withstand voltage	Input-Output: 3750V/5mA/1min	Input-Output: 3750V/5mA/1min	
	Ta(°C)	-2050	-2065 (See derating)	
	Tc max.(°C)	max.80	max.85	
Ambient	Storage Temperature(℃)	-4080	-4080	



and Life tim	ne Ambient humidity range	10%95%RH, Not condensing	10%95%RH, Not condensing	
	Nominal life-time(hrs)	50'000@Ta	50'000@Ta	
	Dimensions (L×W×H)(mm)	110*40*29.5	110*40*29.5	
	Weight(g)	228	250	
Other	Casing material	Plastic	Plastic	
	Housing colour	White	White	
	Type of protection	IP67	IP67	
	Protection class	class II	class II	
	Certificate	TUV CE	TUV CE	
Note	 Tolerance:includes set up tolerance, line regulation and load regulation. Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 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. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 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. 			





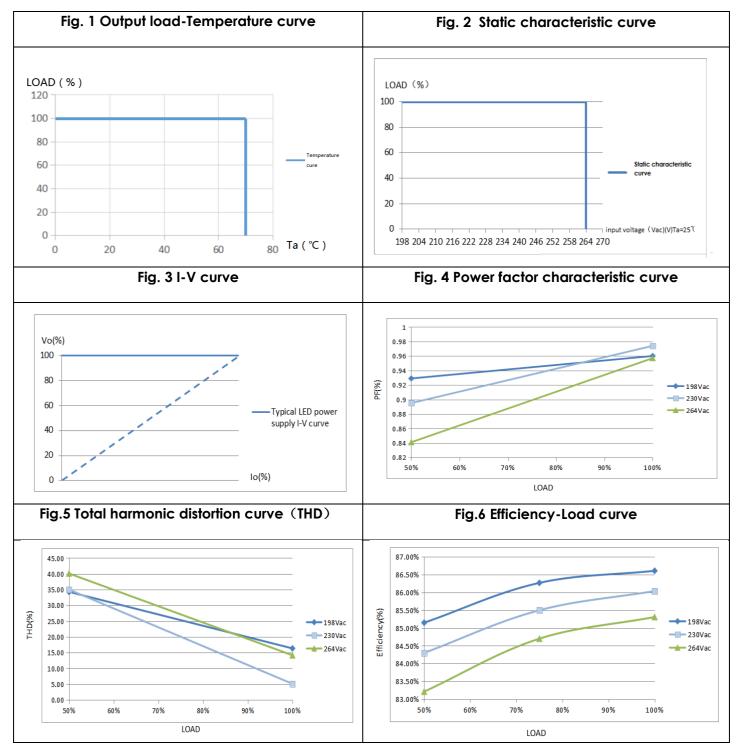
Wiring Diagram

INPUT	N L	LED POWER SUPPLY	+ œ- - œ-	OUTPUT
	AC	H05RN-F 2*1.0mm2 VDE black ,300mm		
	DC	SVT 18AWG*2C 105℃ 300V black,300mm		

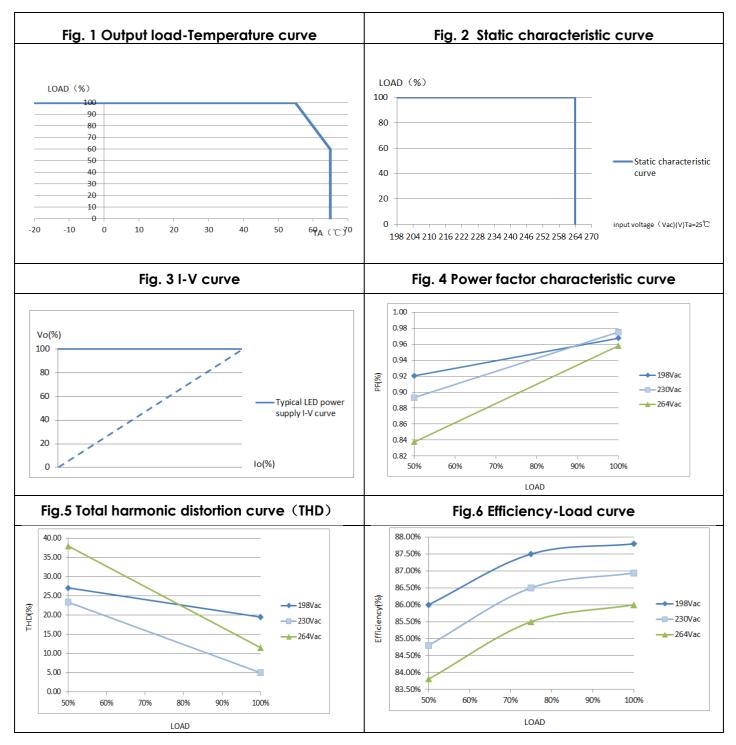


Electrical curves

SPF35-12VSP









MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SPF35-12VSP	24	31	38	48	40	53	65	81
SPF35-24VSP	24	31	38	48	40	53	65	81

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SPF35-12VSP			
SPF35-24VSP			

Revision history

Date	Rev.	Remark
2023.3	A1	Initial release.

