Constant Voltage LED Power Supply SPF35-12/24VSP

Product description



SPF35 is an indoor constant voltage LED driver, with an input voltage range of 220-240Vac and a maximum conversion efficiency of up to 86%. It operates in the temperature range of -20 ° C to+45 ° C natural cooling and cooling casing, and has ultra-high power factor, ultra-low total harmonic distortion, 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)
- With active PFC function
- IP67
- Suitable for indoor environment
- Protections: Short circuit / Over voltage
- Adopt plastic case and internal glue filling
- Compliance to worldwide safety regulations for lighting

www.snappy.cn Last update: 18 Apr. 2023



Specifications

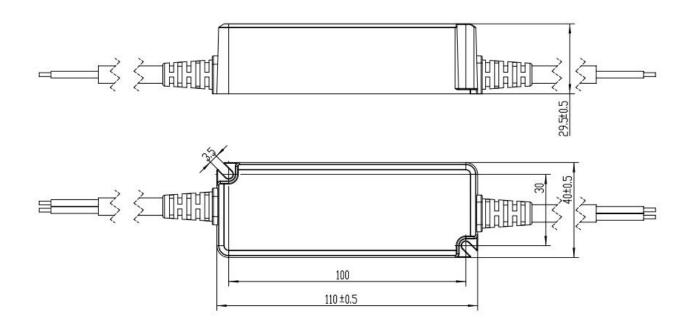
Model		SPF35-12VSP	SPF35-24VSP	
	turn on time(S)	<0.5	<0.5	
	output power(W)	35	35	
	output voltage(V)	12	24	
	output voltage tolerance	±5%	±5%	
	ripple voltage(mV)	240	240	
Output	Line Regulation	3%	3%	
	Load Regulation	3%	3%	
	working current range(A)	0-2.9	0-1.45	
	SVM	≤0.4	≤0.4	
	Pst	≤1	≤1	
	dimming type	N/A	N/A	
	dimming range	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	
	input current(A)	0.18	0.18	
	efficiency	86%@full load	87%@full load	
Input	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.) THD	60-100%载分次谐波	10%	
	inrush current(lpk)	21A/175uS	21A/175uS	
	Leakage current	<0.7mA	<0.7mA	
	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	-	-	
Protection	n Over temperature protection	-	-	
	surge capacity	L-N: 1KV	M-N: 1KV	
	Withstand voltage	Input-Output: 3750V/5mA/1min	Input-Output: 3750V/5mA/1min	
	Ta(C)	-2050	-2065	
	Tc max.(C)	max.80	max.85	
Ambient	Storage Temperature(C)	-4080	-4080	



and Life	ambient humidity range	10%95%RH, Not condensing	10%95%RH, Not condensing			
	nominal life-time(hrs)	50'000	50'000@Ta			
	dimensions (L×W×H)(mm)	110*40*29.5	110*40*29.5			
	weight(g)	228	250			
0	casing material	Plastic	Plastic			
Other	housing colour	White	White			
	type of protection	IP67	IP67			
	protection class	class II	class II			
	certificate	CE TUV	CE TUV			
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

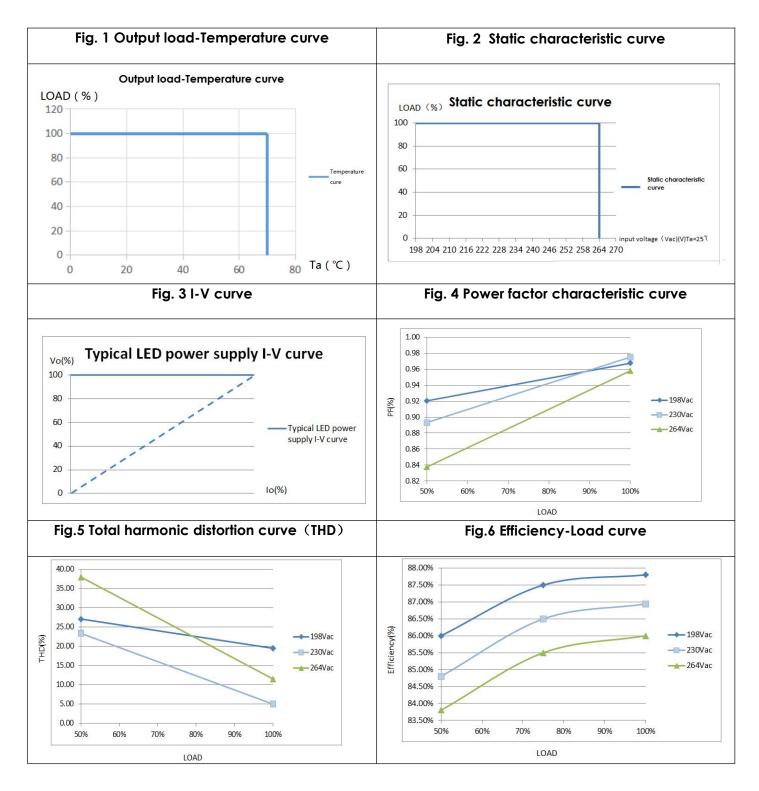


Remark:	
AC INPUT CABLE	With SR AWM1015 18AWG*1 UL brown/blue (tinned) 105°600V L=150mm
DC OUTPUT CABLE	With SR AWM1007 UL 16AWG*1 80°C 300V red/black SNP-023002



Electrical curves

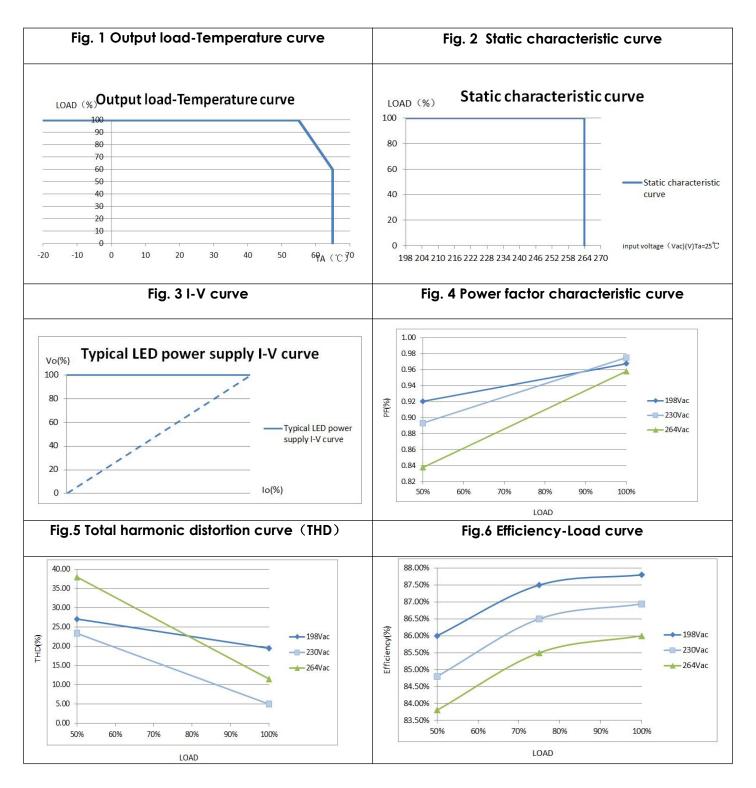
SPF35-12VSP





Electrical curves

SPF35-24VSP





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	Al	Initial release.

