



LED POWER SUPPLY DATASHEET

SNP60-12VF-1(UL)

·DESCRIPTION

This product is not only cost-effective, but also meets the Class II standard for electric shock protection. In order to improve the safety of the product, open circuit, short circuit and overload protection functions are added to the circuit, and the product lifetime is 30000hrs. Warranty is 5 years.



·Input

Items	Conditions	Request		Note
Input voltage	Ta	90-132Vac	180-264Vac	--
Input frequency		50/60Hz	50/60Hz	--
Input current	25°C, rated input voltage, output with max. rated power	< 0.8A	< 0.6A	--
Input power		< 70W	< 88W	--
Efficiency		≥ 86%	≥ 88%	--
Standby	25°C, rated input voltage, output without load	<0.5W	<0.5W	average
Inrush current	25°C, rated input voltage	<50A	<75A	peak
PF	25°C, rated input voltage, output max. rated power	≥ 0.95	≥ 0.90	--

·Temperate and others

Item	Conditions	Request		Note
Operation temp.	--	-20-45°C		--
Relative humidit	--	45%-85%		--
Max. case temp	--	80°C	85°C	--
Lifetime	Max.Ta, rated input voltage, output with max.rated power	30,000hr		--
Working noise	25°C, rated input voltage, output with rated power, mute box background noise<35dB, pickup 10cm distance from products	yes		--

·Protection

Items	Conditions	Request	Note
Open circuit	Ta, rated input voltage, no load	--	--
Over load	Ta(60W), 0.94-1.06 times of input voltage, 2.2 times of rated power	yes	--
	Ta(75W), 0.94-1.06 times of input voltage, 1.8times of rated power	yes	--
Short circuit	Ta, 0.94-1.06 times of input voltage	yes	--
Over temperatu	Ta, 0.94-1.06 times of input voltage, temperature detected pointed more than 115 degree	yes	--
Over voltage	Ta, 0.94-1.06 times of input voltage, output voltage is 1.5 times of rated one	yes	--
Auto recovery	Over load, short circuit and over heat revocation	yes	--
Latch off	Over voltage re-start after cut off	yes	--

·Output

Items	Conditions	Request		Note
Startup time	25°C, rated input voltage, output with max. rated power	<1S	<0.5S	--
Output voltage and precision	Ta, rated input voltage, output with rated power	12V±5%		--
Output current range	Ta, rated input voltage	0-5A	0-6.25A	60W/75W
Output voltage wave	25°C, rated input voltage, output with max. rated power	<300mV	<400mV	Vp-p
Output overload	25°C, rated input voltage, output with 2 times LED load	Yes		--
Output current and precision	Ta, rated input voltage, output with rated power	--		--
Rated output voltage range	Ta, rated input voltage	--		--
Output current wave	25°C, rated input voltage, output with max. rated	--		Ip-p
Dimming mode	--	--		--
Dimming range	--	--		--

·Mechanical, mounting

Items	Conditions
Case material and size	Plastic Case 304.6x30x16.7mm
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	SPT-2 18AWG
Output cables dimension	SPT-2 18AWG
Output cables length	Max. 2M

·Standard

Items	Conditions	
Safety	UL8750	IEC61347-1, IEC61347-2-13
Harmonic	--	EN61000-3-2 Class C
EMI	FCC PART15 CLASSB	EN55015
EMS	--	EN61000-4-2, 3, 4, 5, 6 EN61547

Dimensions(mm)



Wiring Diagram

