



LED POWER SUPPLY DATASHEET

SP50-12VFT

·DESCRIPTION

 ${\it High Cost Performance, SELV. short circuit, overload and over temperature protection. Compliance to ERP directive, lifetime 30,000 hrs.}$



Innut

Items	Conditions	Request	Note
Input voltage	Та	AC220-240V	-
Input frequency		50Hz	
Input current		< 0.3A	
Input power	25°C,rated input voltage, output with max. rated power	< 60W	
Efficiency		≥ 85 %	
Standby	25℃,rated input voltage, output without load		average
Inrush current	25 [°] C,rated input voltage	<75A	peak
PF	25°C,rated input voltage, output max. rated power	≥ 0.9	

·Temperate and others

Item	Conditions	Request	Note
Operation temp.		-20-45℃	
Relative humidity		15%-90%	
Max. case temp.		85℃	
Lifetime	Max.Ta, rated input voltage, output with max.rated power	30,000hr	1
Working noise	25℃, rated input voltage, output with rated power, mute box background noise<35dB,pickup 10cm distance from products	yes	1

·Protection

Items	Conditions	Request	Note
Open circuit	Ta, rated input voltage, no load		
Over load	Ta ,0.94-1.06 times of input voltage, 1.2 times of rated power		
Short circuit	Ta ,0.94-1.06 times of input voltage	yes	
Over temperature	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 revocation	yes	
Latch off	Over voltage, over heat re-start after cut off	yes	

·Output

Items	Conditions	Request	Note
Startup time	25℃, rated input voltage,output with max. rated power		
Output voltage and precisio	Ta, rated input voltage, output with rated power	12V±5%	-
Output current range	Ta, rated input voltage	0.5-4.16A	
Output voltage wave	25℃, rated input voltage,output with max. rated power		Vp-p
Output overload	25℃, rated input voltage,output with 2 times LED load		
Output current and precision	Ta , rated input voltage, output with rated power		
Rated output voltage range	Ta , rated input voltage		
Output current wave	25℃, rated input voltage,output with max. rated power		Ір-р
Dimming mode		triac CV	
Dimming range		20%-90%	

·Mechanical, mounting

Items	Conditions
Case material and size	Plastic, 177x57.8x21.8mm
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	terminal block H03VVH2-F 2x0.75mm2
Output cables dimension	terminal block H03VVH2-F 2x0.75mm2
Output cables length	2m max

·Standard

Items	Conditions
Safety	IEC61347-1、IEC61347-2-13
Harmonic	EN61000-3-2 Class C
EMI	EN55015
EMS	EN61000-4-2、3、4、5、6 EN61547







