



# LED POWER SUPPLY DATASHEET

SP100-24VLT

## **DESCRIPTION**

SP100 is triac dimmable and constant voltage product, with high cost performance. Open circuit, short circuit, overload and over heat protection, Built-in active PFC function. Compliance to safety and EMC certification,Lifetime more than 30,000hrs.

·Input

Items	Conditions	Request	Note
Input voltage	_	220-240Vac	
Input frequency	Ta Ta	50Hz	
Input current		< 1A	
Input power	25℃,rated input voltage, output with max. rated power	<120W	
Efficiency		≥ 85%	
Inrush current	25℃,rated input voltage	<75A	Peak
PF	25 <sup>°</sup> C,rated input voltage, output with max. rated power	≥0.9	

It's necessary to add a switch between electricity and Led power to reach the newest ErP regulations

# ·Temperature and others

Items	Conditions	Request	Note
Operation temp.		-20-45℃	
Relative humidity		45%-85%	
Max. case temp.		90℃	
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<30dB, pickup 10cm distance from products	<35dB	

·Protection			
Items	Conditions	Request	Note
Open circuit	Ta, rated input voltage, no load		
Over load	Ta ,0.94-1.06 times of input voltage, 1.6 times of output rated power	Yes	
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 110 degree	Yes	
Output over voltage	Ta ,0.94-1.06 times of input voltage,output voltage is 1.5 times of rated one	Yes	ı
Auto recovery	Overload,Short circuit,over heat revocation	Yes	-
Latch off	over heat re-start after cut off		

·Output			
Items	Conditions	Request	Note
Startup time	25℃, rated input voltage,output with max. rated power		@230V
Rated output voltage and precision	Ta , rated input voltage,output with rated power	24V±5%	<13V
Output current range	Ta ,rated input voltage	2-8.33A	
Output voltage wave	25℃, rated input voltage,output with max. rated power	<300mV	Vp-p
Output overload	25℃,rated input voltage,output with 2 times LED load	yes	-1
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		lp-p
Dimming mode	leading or trailing edge dimmers	TRIAC	
Dimming range		10%-100%	@230V

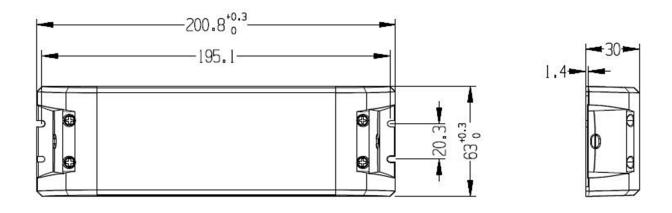
# ·Mechanical, mounting and wiring mode

Items	Conditions
Case material and size	Plastic
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	H05VVH2-F 2x1.0mm²
Output cables dimension	H05VVH2-F 2×1.0mm <sup>2</sup>
Output cables length	2000mm

# ·Standard

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Items	Conditions
Safety	IEC61347-1、IEC61347-2-13(with lamps IEC60598)
Harmonic	IEC61000-3-2
EMI	IEC55015
EMS	IEC61547





# PRI N O LED POWER SUPPLY SEC Wire preparation 7-8mm 0.5~1mm²