

LED Power Supply

Constant Voltage LED Driver | Input 200 – 240V AC | Output 24V DC

Cost-effective Led driver, SELV. In order to improve the safety of the product, the circuit added protection function of short circuit, open circuit, overload and over temperature. Compliance with the requirements for low power consumption of ERP directive, lifetime up to 30,000 hrs.



·Input

Items	Conditions	Request	Note
Rated Input voltage	Ta	200-240Vac	---
Input frequency		50/60Hz	---
Input current	25℃, rated input voltage, output with max. rated power	< 0.5A	---
Input power		< 89W	---
Efficiency		≥ 85 %	---
Standby	25℃, rated input voltage, output without load	<0.21W	average
Inrush current	25℃, rated input voltage	<75A	peak
PF	25℃, rated input voltage, output max. rated power	≥ 0.9	---

·Output

Items	Conditions	Request	Note
Startup time	25℃, rated input voltage, output with max. rated power	<0.5S	--
Output voltage and precision	Ta , rated input voltage, output with rated power	24V±5%	--
Output current range	Ta , rated input voltage	0-3.13A	
Output voltage wave	25℃, rated input voltage, output with max. rated power	150mV	Vp-p
Output overload	25℃, 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℃, rated input voltage, output with max. rated power	--	Ip-p
Dimming mode	--	--	--
Dimming range	--	--	--

·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℃, rated input voltage, output with rated power ,mute box background noise<35dB, pickup 10cm distance from products	Yes	--

·Mechanical, mounting

Items	Conditions
Case material and size	Plastic
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	Terminal
Output cables dimension	Terminal
Output cables length	---

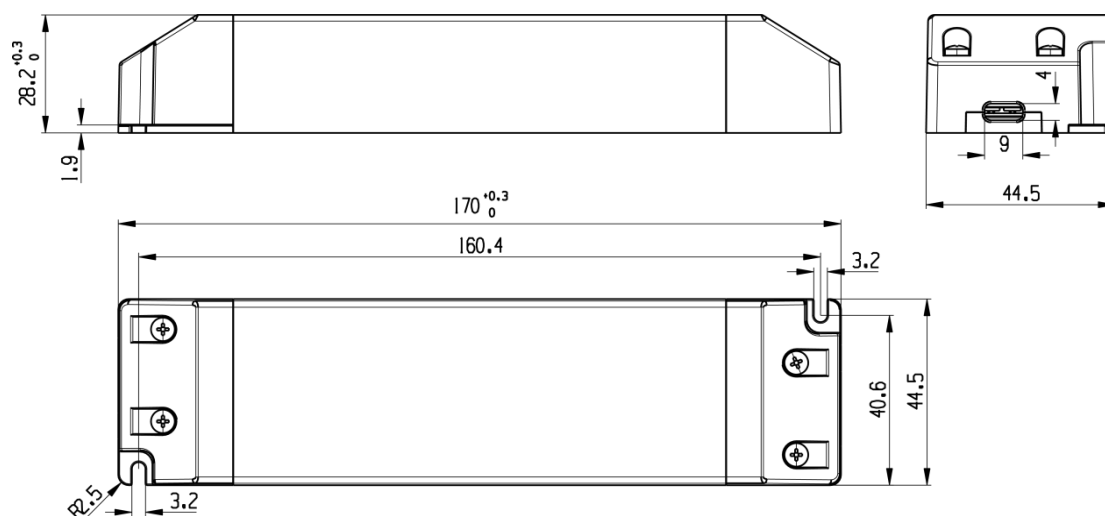
Protection

Items	Conditions	Request	Note
Open circuit	Ta, rated input voltage, no load	yes	---
Over load	Ta ,0.94-1.06 times of input voltage, 1.6 times of 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 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 heat re-start after cut off	yes	---

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

Dimensions(mm)



Wiring Diagram

