



LED POWER SUPPLY DATASHEET

SP10-12VFT

DESCRIPTION

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



Input

Items	Conditions	Request	Note
Input voltage	Ta	AC198-264V	--
Input frequency		50/60Hz	--
Input current	25℃, rated input voltage, output with max. rated power	< 0.08A	--
Input power		< 14W	--
Efficiency		0.78	--
Standby	25℃, rated input voltage, output without load	--	average
Inrush current	25℃, rated input voltage	<75A	peak
PF	25℃, rated input voltage, output max. rated power	≥ 0.9	--

Temperature and others

Item	Conditions	Request	Note
Operation temp.	--	-20-45℃	--
Relative humidity	--	15%-90%	--
Max. case temp.	--	80℃	--
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	--

Protection

Items	Conditions	Request	Note
Open circuit	Ta, rated input voltage, no load	--	---
Over load	Ta, 0.94-1.06 times of input voltage, 2.4 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	--	---
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	--	---

Output

Items	Conditions	Request	Note
Startup time	25℃, rated input voltage, output with max. rated power	--	--
Output voltage and precision	Ta, rated input voltage, output with rated power	12V±5%	--
Output current range	Ta, rated input voltage	0.167A-0.833A	--
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	--	Ip-p
Dimming mode	--	traic	--
Dimming range	--	20%-90%	--

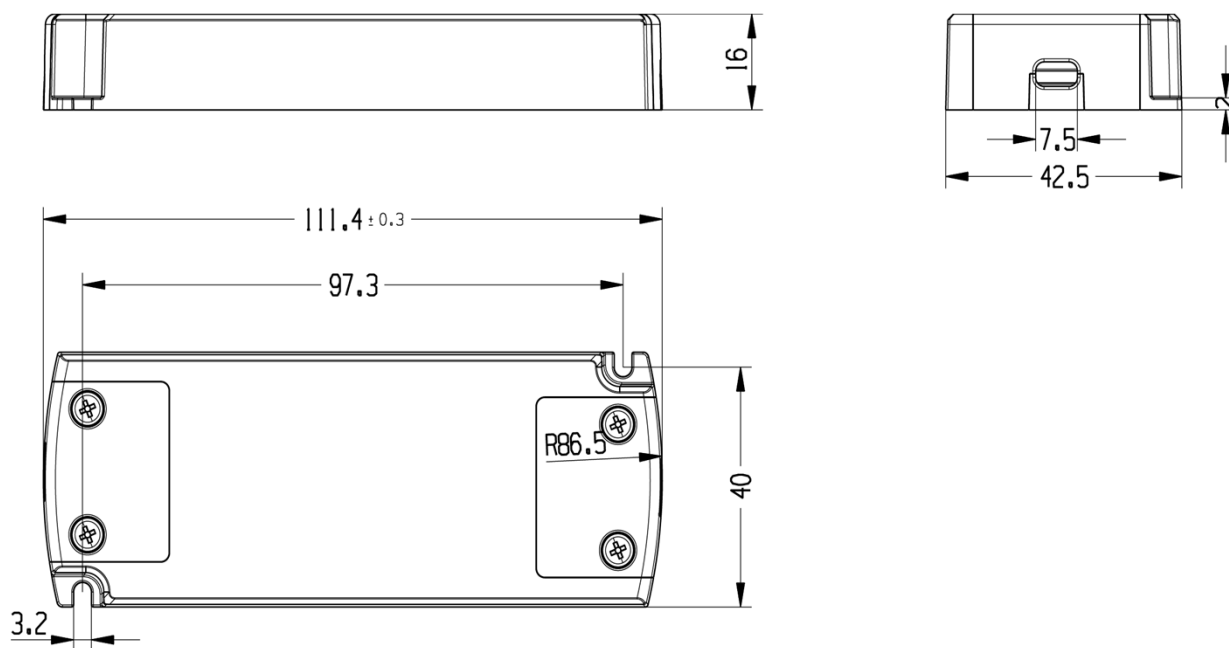
Mechanical, mounting

Items	Conditions
Case material and size	Plastic, 158x45.8x18.3mm
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	terminal block H03VVH2-F 2x0.75mm ²
Output cables dimension	terminal block H03VVH2-F 2x0.75mm ²
Output cables length	2000mm

Standard

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

Dimensions(mm)



Wiring Diagram



