



LED POWER SUPPLY DATASHEET

SE100-12VL

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°C, rated input voltage, output with max. rated power	< 0.7A	--
Input power		< 120W	--
Efficiency		≥ 88%	--
Standby	25°C, rated input voltage, output without load	< 0.5W	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

Items	Conditions	Request	Note
Operation temp.	--	-20-45°C	--
Relative humidity	--	45%-85%	--
Max. case temp.	--	90°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

Item	Conditions	Request	Note
Open circuit	Ta, rated input voltage, no load	--	--
Over load	Ta, 0.94-1.06 times of input voltage, 1.8 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, over temperature 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	<0.5S	--
Output voltage and precision	Ta, rated input voltage, output with rated power	12V±5%	--
Output current range	Ta, rated input voltage	0-8.33A	
Output voltage wave	25°C, rated input voltage, output with max. rated power	300mV	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 power	--	Ip-p
Dimming mode	--	--	--
Dimming range	--	--	--

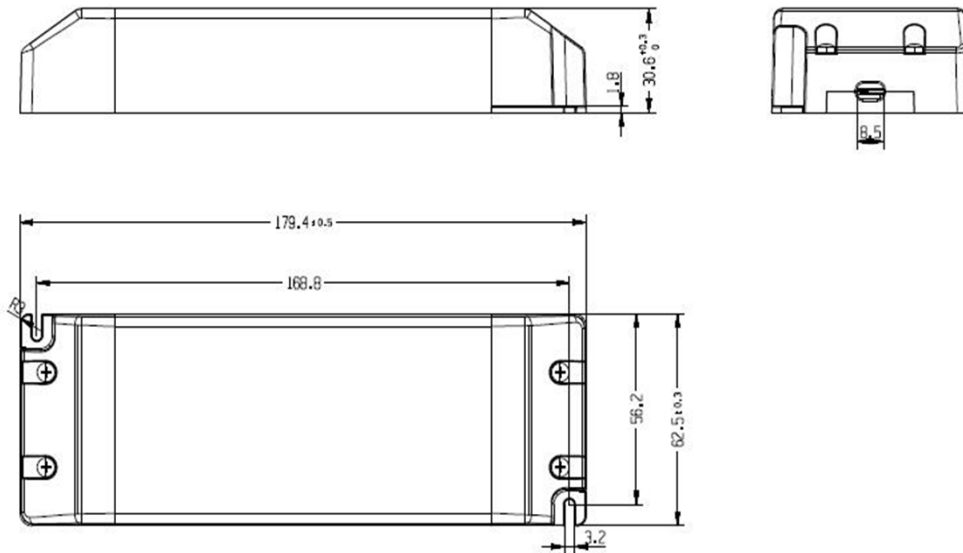
Mechanical, mounting

Items	Conditions
Case material and size	Plastic case
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	H03VVH2-F 2X0.75mm ²
Output cables dimension	H05VVH2-F 2X1.0mm ²
Output cables length	Max 2M

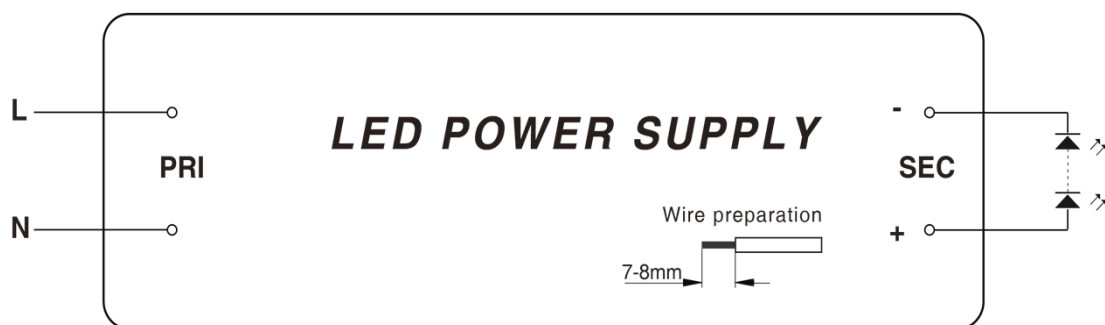
Standard

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





LED POWER SUPPLY DATASHEET

SE100-24VL

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°C, rated input voltage, output with max. rated power	< 0.7A	--
Input power		< 120W	--
Efficiency		≥ 90 %	--
Standby		25°C, rated input voltage, output without load	<0.5W
Inrush current	25°C, rated input voltage	<75A	peak
PF	25°C, rated input voltage, output max. rated power	≥ 0.9	--

Temperature and others

Items	Conditions	Request	Note
Operation temp.	--	-20-45°C	--
Relative humidity	--	45%-85%	--
Max. case temp.	--	80°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	yes	--

Protection

Item	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 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, Over temperature revocation	YES	--
Latch off	over temperature re-start after cut off	YES	--

Output

Items	Conditions	Request	Note
Startup time	25°C, 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	0-4.17A	
Output voltage wave	25°C, rated input voltage, output with max. rated power	700mV	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 power	--	Ip-p
Dimming mode	--	--	--
Dimming range	--	--	--

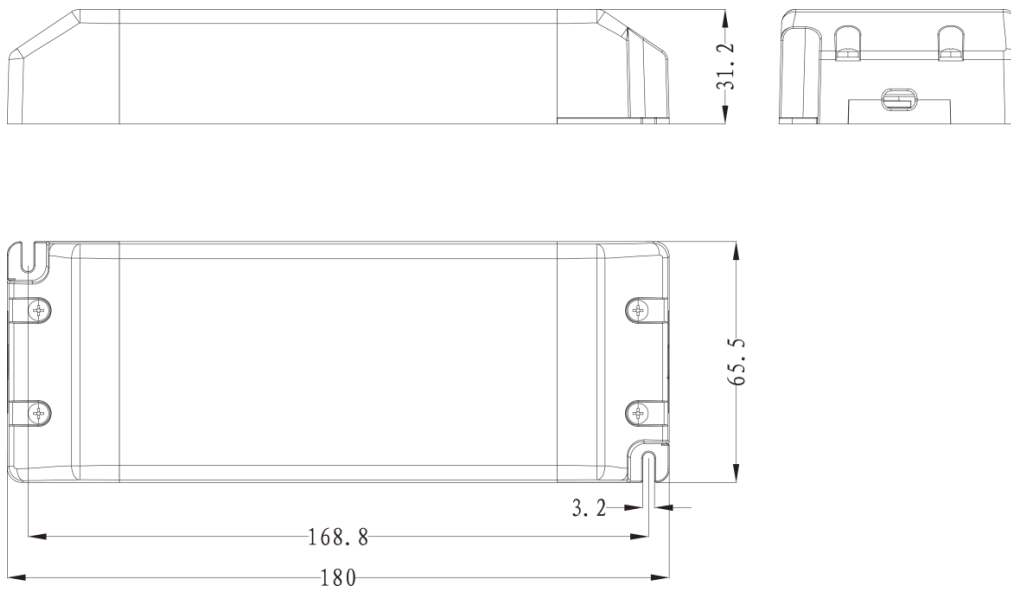
Mechanical, mounting

Items	Conditions
Case material and size	Plastic case
Mounting ways	Independent
Insulation type	Class II
IP grade	IP20
Input cables dimension	H03VVH2-F 2X0.75mm ²
Output cables dimension	H05VVH2-F 2X1.0mm ²
Output cables length	Max 2M

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**

