



LED POWER SUPPLY DATASHEET

SS50-12VL

·DESCRIPTION

Super slim LED drivers, SELV. Open circuit, short circuit, overload and over temperature protection. Compliance to ERP directive, lifetime reach 50000hrs. 5 years warranty.



·Input

| Items | Conditions | Request | Note |
|-----------------|---------------------------------------------------------|------------|-----------|
| Input voltage | Ta | 220-240Vac | -- |
| Input frequency | | 50/60Hz | -- |
| Input current | | <0.27A | -- |
| Input power | 25°C, rated input voltage, output with max. rated power | <57W | -- |
| Efficiency | | 88% | -- |
| Standby | 25°C, rated input voltage, output without load | <0.5W | Average |
| Inrush current | 25°C, rated input voltage | <40A | 230V/50HZ |
| THD | 25°C, rated input voltage, output max. rated power | <10% | 230V/50HZ |
| PF | | ≥ 0.9 | 230V/50HZ |

·Output

| Items | Conditions | Request | Note |
|------------------------------|---------------------------------------------------------|---------|------|
| Startup time | 25°C, rated input voltage, output with max. rated power | <0.5S | 230V |
| Output voltage and precision | Ta, rated input voltage, output with rated power | 12V±5% | -- |
| Output current range | Ta, rated input voltage | 0-4.16A | -- |
| Output voltage wave | 25°C, rated input voltage, output with max. rated power | < 3% | Vp-p |
| Line regulation | Ta, rated input voltage, output with rated power | 1% | -- |
| Load regulation | Ta, rated input voltage | 1% | -- |

·Temperate and others

| Items | Conditions | Request | Note |
|-------------------|------------------------------------------------------------------------------------------------------------------------|-----------|------|
| Operation temp. | -- | -20-45°C | -- |
| Relative humidity | -- | 10%-90% | -- |
| Max. Tc. | -- | 90°C | -- |
| Lifetime | Below Tc 85°C, rated input voltage, output with max.rated | 50,000hr | -- |
| MTBF | Max.Ta, rated input voltage, output with max.rated power | 200,000hr | -- |
| Working noise | 25°C, 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 case 149x40.4x26.7mm |
| Mounting ways | Independent |
| Insulation type | Class II |
| IP grade | IP20 |
| Input connection mode | Terminal block |
| Output connection mode | Terminal block |
| Output cables length | Max. 2m |

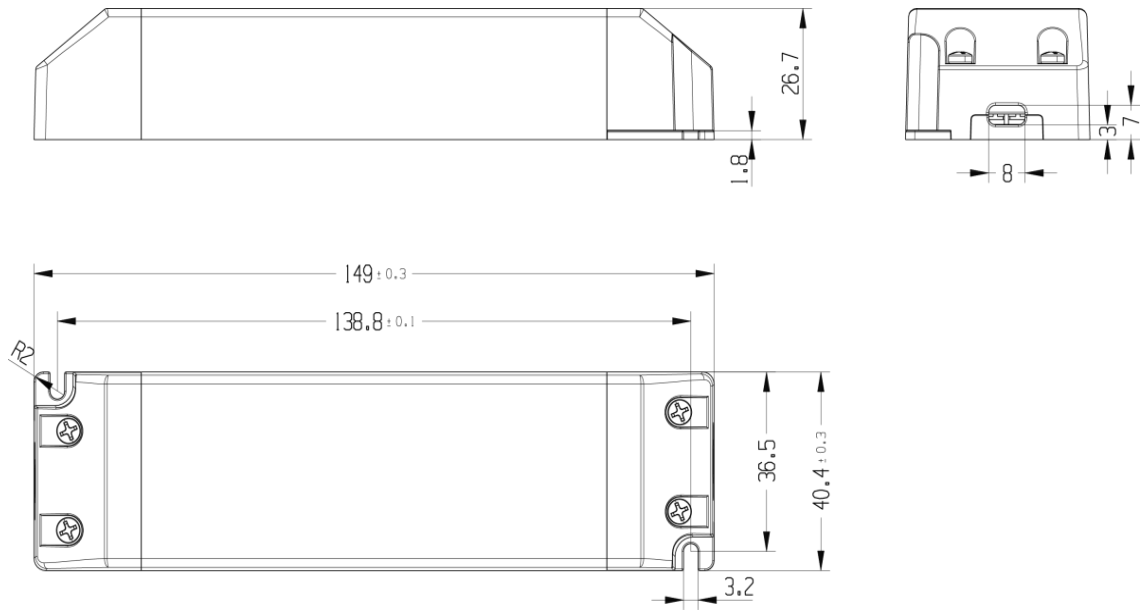
·Protection

| Item | Conditions | Request | Note |
|---------------------|-----------------------------------------------------------------------------------------|---------|------|
| Open circuit | Ta, rated input voltage, no load | yes | -- |
| Over load | Ta, 0.94-1.06 times of input voltage, 1.2 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 | -- |
| Output 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 auto revocation | yes | -- |

·Standard

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

● **Dimensions(mm)**



● **Wiring Diagram**

