

LED POWER SUPPLY DATASHEET



SP150-12VLT

·DESCRIPTION

SP150 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 | Ta | 220-240Vac | 98-255VAC |
| Input frequency | | 50Hz | -- |
| Input current | 25°C, rated input voltage, output with max. rated power | < 1A | -- |
| Input power | | <150W | -- |
| Efficiency | | ≥ 89% | full load |
| Inrush current | 25°C, rated input voltage | <75A | Peak |
| PF | 25°C, rated input voltage, output with max. rated power | ≥0.9 | full load |
| It's necessary to add a switch between electricity and Led power to reach the latest ErP regulations | | | |

·Temperature 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 < 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, 1.8 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 | -- |
| 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°C, rated input voltage, output with max. rated power | -- | @230V |
| Output voltage and precision | Ta, rated input voltage, output with rated power | 12V±5% | <13V |
| Output current range | Ta, rated input voltage | 4-11A | -- |
| Output voltage wave | 25°C, rated input voltage, output with max. rated power | <500mV | 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 | 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 | connector+ H05VVH2-F 2x1.0mm ² |
| Output cables dimension | connector+ H05VVH2-F 2x1.0mm ² |
| Output cables length | |

·Standard

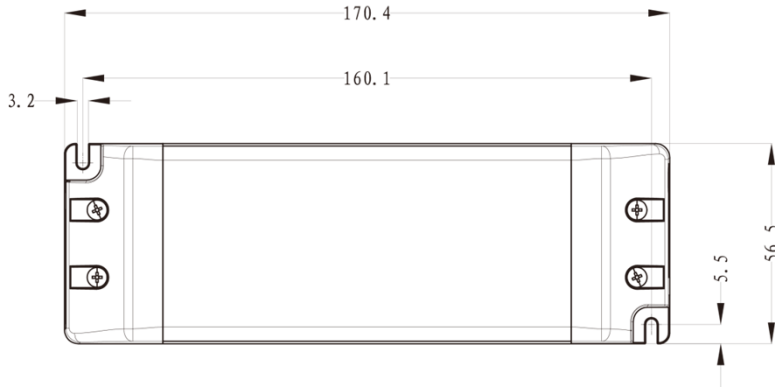
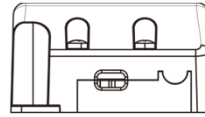
| Items | Conditions |
|----------|---|
| Safety | IEC61347-1, IEC61347-2-13 (with lamps IEC60598) |
| Harmonic | IEC61000-3-2 |
| EMI | IEC55015 |
| EMS | IEC61547 |



SNAPPY

KNOW HOW. NO LIMITS.

Dimensions(mm)



L

PRI

LED POWER SUPPLY

N

Wire preparation

7-8mm

+

SEC

-

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