



# LED POWER SUPPLY DATASHEET

## SS50-24VF

### ·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   | 25°C, rated input voltage, output with max. rated power | <0.3A      | 230V/50HZ |
| Input power     |                                                         | <58W       |           |
| Efficiency      |                                                         | 88%        |           |
| Standby         | 25°C, rated input voltage, output without load          | <0.5W      | Average   |
| Inrush current  | 25°C, rated input voltage                               | <30A       | 230V/50HZ |
| THD             | 25°C, rated input voltage, output max. rated power      | <10%       |           |
| PF              |                                                         | ≥ 0.97     |           |

### ·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        | 24V±5%  | --   |
| Output current range         | Ta, rated input voltage                                 | 0-2.08A | --   |
| Output voltage wave          | 25°C, rated input voltage, output with max. rated power | < 3%    | Vp-p |
| Output overload              | 25°C, 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°C, rated input voltage, output with max. rated power | --      | Ip-p |

### ·Temperate and others

| Items             | Conditions                                                                                                               | Request   | Note |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|-----------|------|
| Operation temp.   | --                                                                                                                       | -20-45°C  | --   |
| Relative humidity | --                                                                                                                       | 10%-90%   | --   |
| Max. Tc.          | --                                                                                                                       | 80°C      | --   |
| Lifetime          | Below Tc 80°C, rated input voltage, output with max. rated power                                                         | 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 159.9x57.8x18mm |
| 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                      |

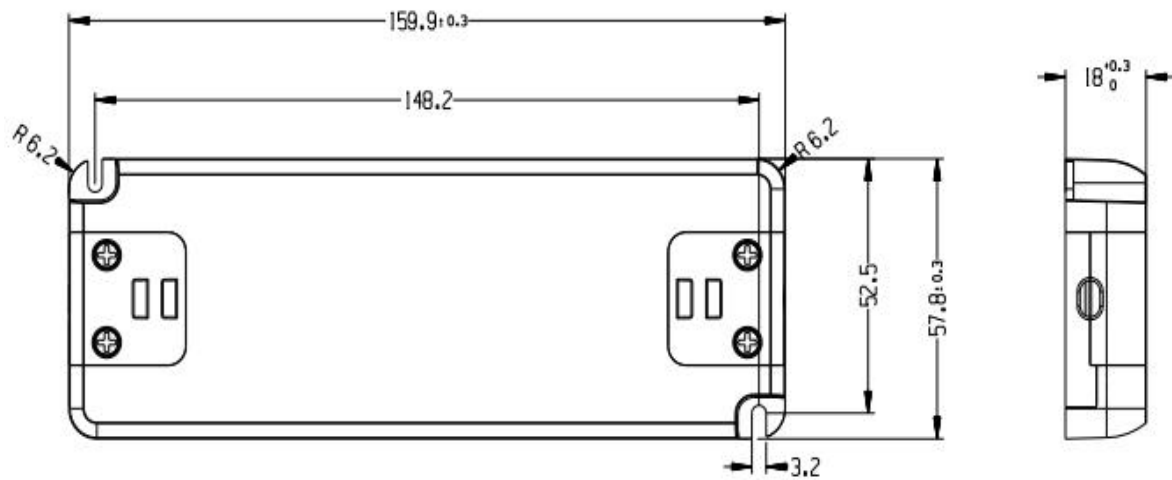
### ·Protection

| Item             | Conditions                                                                              | Request | Note |
|------------------|-----------------------------------------------------------------------------------------|---------|------|
| Open circuit     | Ta, rated input voltage, no load                                                        | yes     | --   |
| Over load        | Ta, 0.94-1.06 times of input voltage, 1.3 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 auto revocation                               | yes     | --   |
| Latch off        | --                                                                                      | --      | --   |

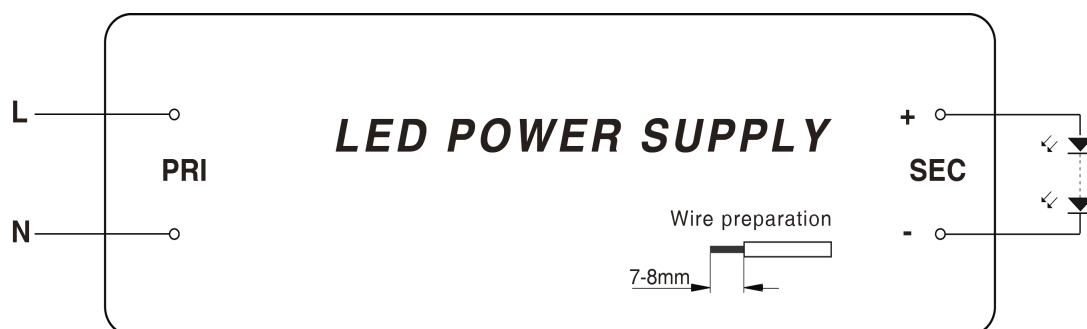
### ·Standard

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

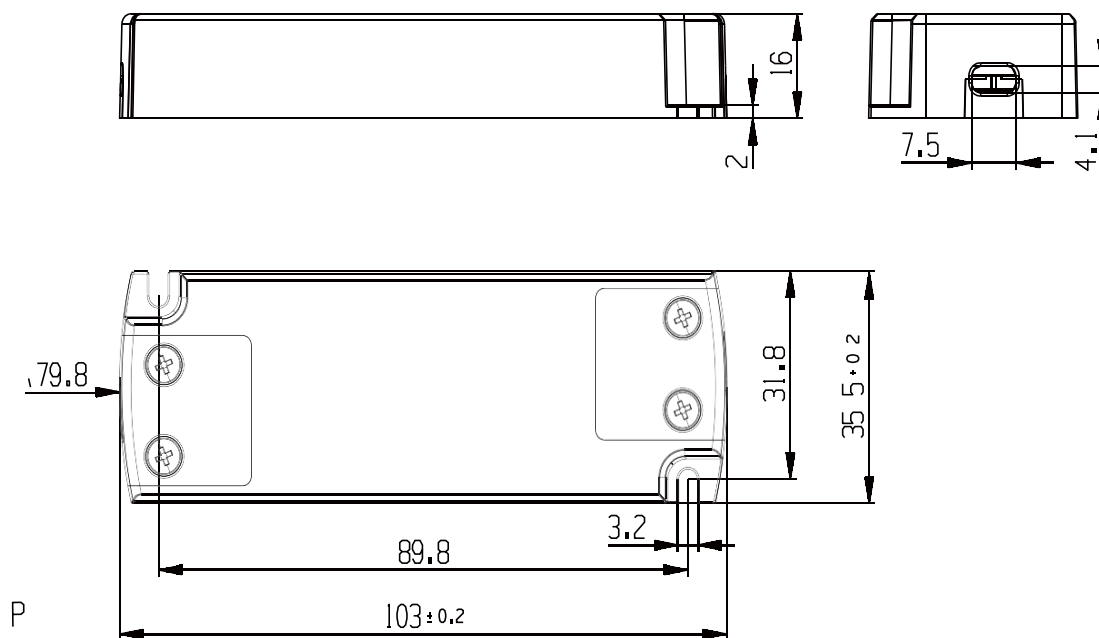
## ● Dimensions(mm)



## ● Wiring Diagram



## ● Dimensions(mm)



## ● Wiring Diagram

