



# LED POWER SUPPLY DATASHEET

SP10-24VFT

## ·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                                                     | AC220-240V | --      |
| Input frequency |                                                        | 50/60Hz    | --      |
| Input current   | 25℃, rated input voltage, output with max. rated power | < 0.07A    | --      |
| Input power     |                                                        | < 13W      | --      |
| Efficiency      |                                                        | 0.81       | --      |
| 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      | --      |

### ·Temperate 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                                                        | Yes     | ---  |
| 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       | 24V±5%       | --   |
| Output current range         | Ta, rated input voltage                                | 0.167-0.417A |      |
| 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%      | --   |

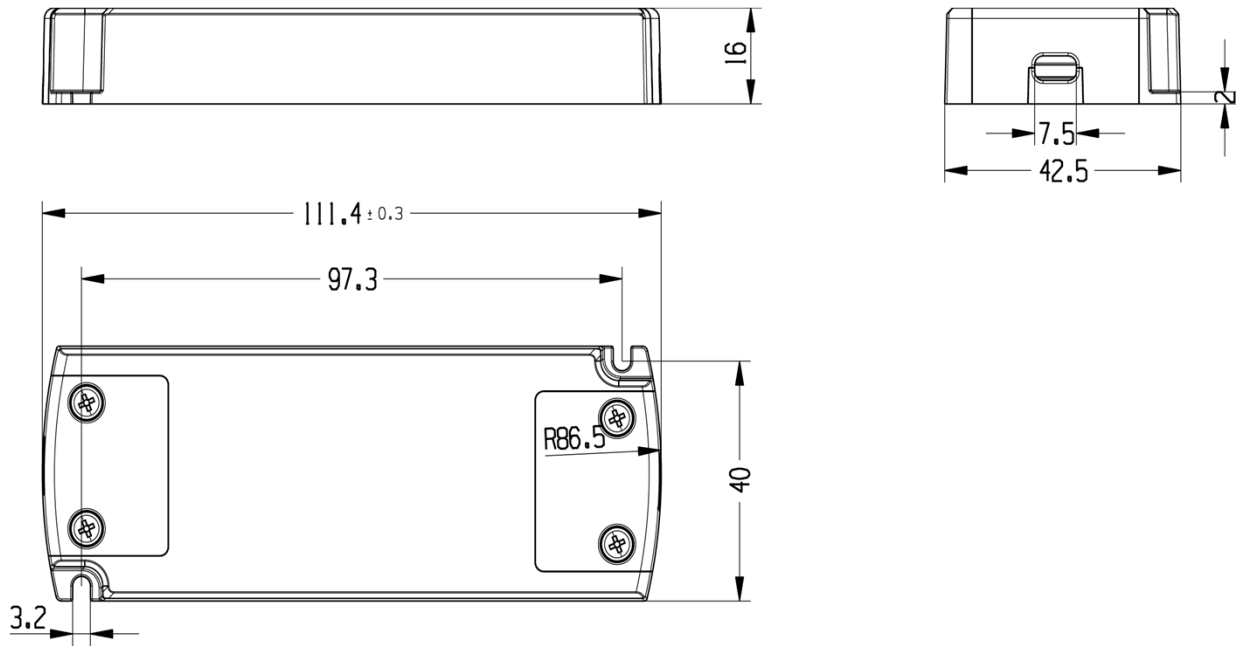
### ·Mechanical, mounting

| 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 <sup>2</sup> |
| Output cables dimension | terminal block H03VVH2-F 2x0.75mm <sup>2</sup> |
| 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

