



## LED POWER SUPPLY DATASHEET

SL75-24VF

### DESCRIPTION

Linear type LED drivers, high cost performance and meet SELV standard. Widely used in all kinds of advertising light boxes and board, neon lights and other applications. Can also be applied in cabinet furniture and linear luminaire field. Compliance to ERP directive, lifetime 30,000hrs. Slim design save much space for installation. Dimmable design meet the requirements for dimming of all kinds of linear light.

### Input

| Items           | Conditions  | Request    | Note    |
|-----------------|---|------------|---------|
| Input voltage   | Ta  | AC180-264V | --      |
| Input frequency |   | 50/60Hz    | --      |
| Input current   | 25°C, rated input voltage, output with max. rated power | < 0.6A     | --      |
| Input power     |   | < 88W      | --      |
| Efficiency      |   | ≥ 89%      | --      |
| 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      | --      |

### Temperature and others

| Item              | 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

| 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 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 point 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 over voltage 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        | 24V±5%   | --   |
| Output current range         | Ta, rated input voltage                                 | 0-3.125A | 75W  |
| Output voltage wave          | 25°C, rated input voltage, output with max. rated power | 600mV    | 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                | --  | --       | --   |

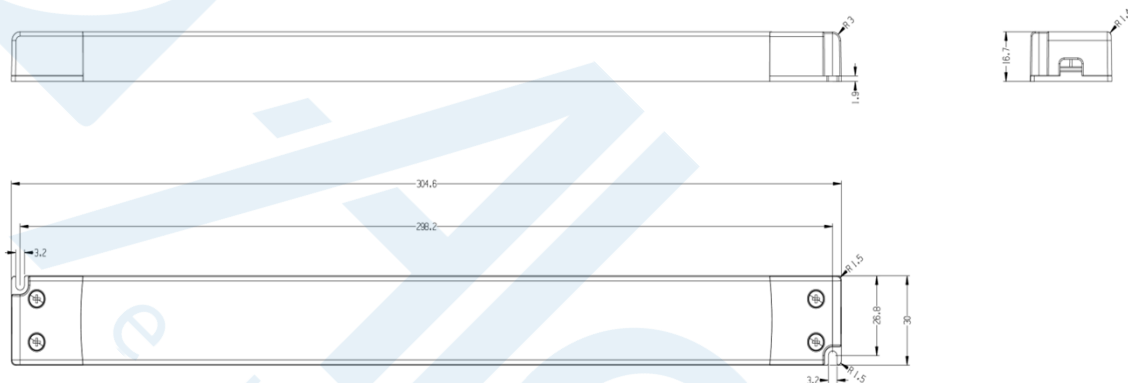
### Mechanical, mounting

| 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 <sup>2</sup> |
| Output cables dimension | H03VVH2-F 2X0.75mm <sup>2</sup> |
| Output cables length    | Max 2000mm                      |

### 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<br>EN61547 |

● **Dimensions(mm)**



● **Wiring Diagram**

