

## LM7-300V24

LED power supply for 24 Vdc constant voltage

12.5 A (300 W) max., IP67, built-in installation, non-dimmable

Flicker free according to IEEE 1789



## Electrical data

|                                            |               |                             |
|--------------------------------------------|---------------|-----------------------------|
| <b>Input voltage (nominal)</b>             | 200...240 Vac |                             |
| <b>Input voltage (range)</b>               | 176...264 Vac |                             |
| <b>Frequency</b>                           | 47/63 Hz      |                             |
| <b>Power factor (<math>\lambda</math>)</b> | $\geq 0.95$   | Full Load, 230 Vac          |
| <b>Input current</b>                       | 1.8 A max.    | Full Load, 198 Vac          |
| <b>No-load loss</b>                        | $\leq 1$ W    | 230 Vac                     |
| <b>Inrush current</b>                      | 60 A          |                             |
| <b>Leakage current</b>                     | $\leq 0,7$ mA | 240 Vac                     |
| <b>Output voltage</b>                      | 24 Vdc        |                             |
| <b>Output current</b>                      | 0...12.5 A    |                             |
| <b>Output power (nominal)</b>              | 300 W max.    |                             |
| <b>Efficiency</b>                          | 93 %          | 230 Vac, Full Load, 25 °C   |
| <b>Life time</b>                           | 50.000 h      | 230 Vac, Tc=75°C, Full Load |
| <b>Dimmable</b>                            | No            |                             |

## Operating condition

|                                                       |              |
|-------------------------------------------------------|--------------|
| <b>Operating temperature range (<math>t_a</math>)</b> | -40...+70 °C |
| <b>Max. Surface temperature (<math>t_c</math>)</b>    | 90 °C        |
| <b>Permitted rel. humidity during operation</b>       | 10...100 %   |
| <b>Protection class</b>                               | I            |
| <b>Type of protection</b>                             | IP67         |

## Protection

|                                 |         |             |
|---------------------------------|---------|-------------|
| <b>Short circuit protection</b> | Yes (2) |             |
| <b>Overload protection</b>      | Yes (2) | 110%...150% |
| <b>Overvoltage protection</b>   | Yes (1) |             |
| <b>Overheating protection</b>   | Yes (2) |             |

(1) The output turns off and can be restored after correcting the problem and restarting the power supply.

(2) The output switches to "Hiccups" mode and can be restored after the problem has been resolved and the power supply restarted.

## Standards & Certificates

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| <b>Standards</b>      | EN 61347-1, EN 61347-2-13<br>EN 62493, EN 62384, EN 55015<br>EN 61000-3-2, EN 61000-3-3<br>EN 61547 |
| <b>Approval marks</b> | CE, UKCA                                                                                            |
| <b>RoHS compliant</b> | Yes                                                                                                 |

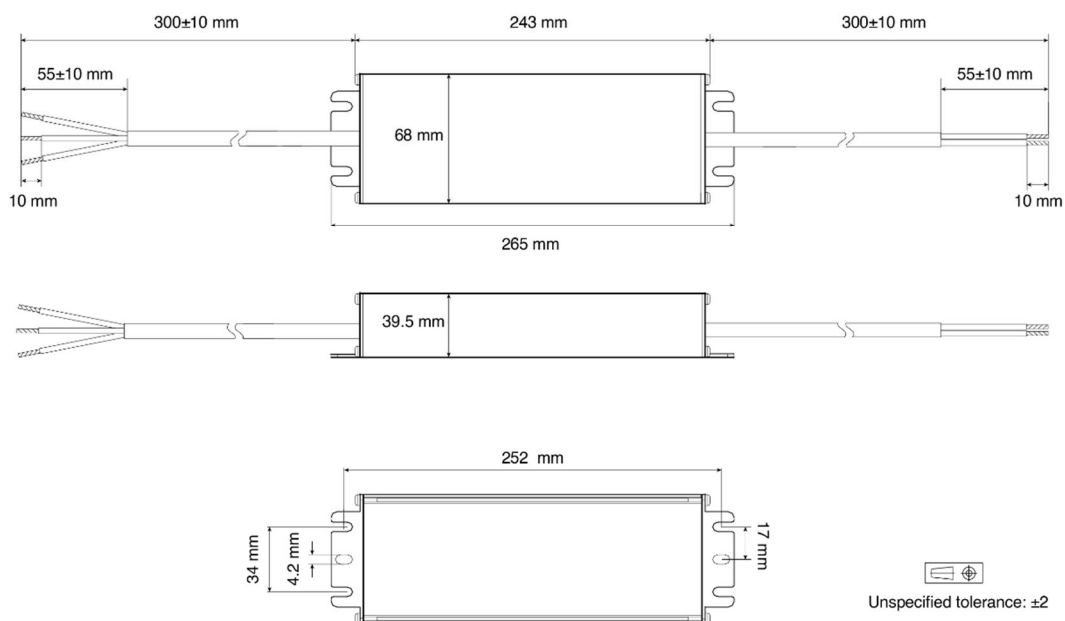
## Dimension & Installation

|                                              |                        |
|----------------------------------------------|------------------------|
| <b>Cable length, input side</b>              | 300 mm                 |
| <b>Cable length, output side</b>             | 300 mm                 |
| <b>Cable cross-section, input side</b>       | 3x 1.0 mm <sup>2</sup> |
| <b>Cable cross-section, output side</b>      | 2x 1.5 mm <sup>2</sup> |
| <b>Cable preparation length, input side</b>  | 10 mm tinned           |
| <b>Cable preparation length, output side</b> | 10 mm tinned           |

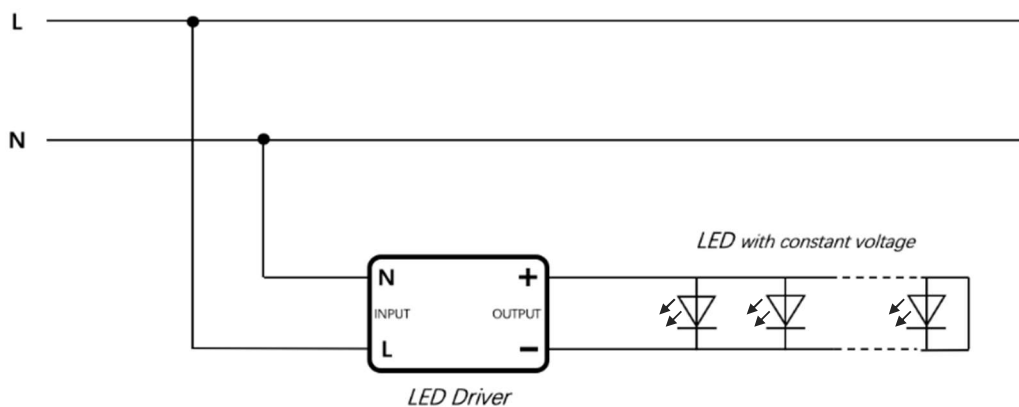
## Dimension

AC INPUT (3 x 1.0 MM<sup>2</sup>)  
BROWN (L)  
BLUE (N)  
YELLOW / GREEN (⊕)

DC OUTPUT (2 x 2.5 MM<sup>2</sup>)  
RED (+)  
BLACK (-)



## Connection



## Safety Notice

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Dangerous currents flow through the body when coming into direct or indirect contact with live components. This can result in electric shock, burns or even death. Work improperly carried out on current-carrying parts can cause fires.</p> <ul style="list-style-type: none"> <li>■ Disconnect the mains power supply prior to installation and/or disassembly!</li> <li>■ Permit work on the 230 V supply system to be performed only by specialist staff.</li> </ul> |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|