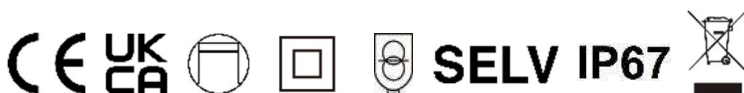


# Datasheet & Operating instructions

## Model: FM7-300V24

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

|                            |               |                    |
|----------------------------|---------------|--------------------|
| Rated input voltage        | 220...240 Vac |                    |
| Range of input voltage     | 170...277 Vac |                    |
| Mains frequency            | 50/60 Hz      |                    |
| Power factor ( $\lambda$ ) | $\geq 0.96$   | Full Load, 230 Vac |
| Input current              | 1.3...2.1 A   |                    |
| No-Load Loss               | $< 0.5$ W     |                    |
| Inrush current             | $\leq 65$ A   |                    |
| Leakage current            | $\leq 0.5$ mA |                    |
| Output voltage             | 24 Vdc        |                    |
| Output current             | 12.5 A max.   |                    |
| Output power (nominal)     | 300 W max.    |                    |
| Efficiency                 | $\geq 93.5$ % |                    |
| Life Time                  | $> 50,000$ h  |                    |
| Dimmable                   | No            |                    |

## Operating Condition

|   |              |  |
|---|--------------|--|
| Operating Ambient Temperature ( $t_a$ ) | -30...+45 °C |  |
| Max Case Temperature ( $t_c$ )          | 80 °C        |  |
| Protection class                        | II           |  |
| Type of protection                      | IP67         |  |

## Protection

|                          |       |             |
|--------------------------|-------|-------------|
| Short Circuit Protection | Yes * |             |
| Overload Protection      | Yes * | 110...150 % |
| Overvoltage Protection   | Yes * | 110...150 % |
| Overheating Protection   | Yes * |             |

(\*) The output shuts off and will be resumed, after problem is removed and led driver is restarted.

## Standards & Certificates

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

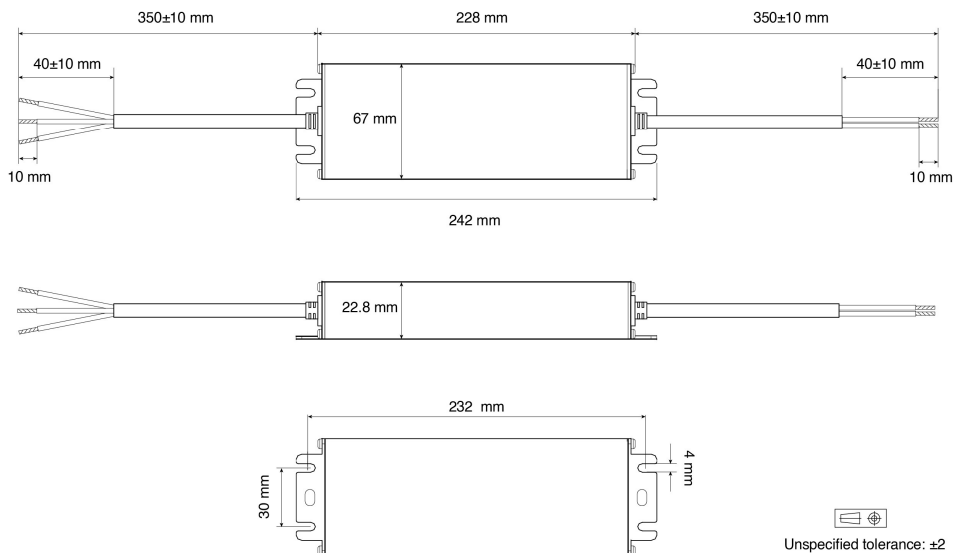
## Installation

|  |   |   |
|--|---|---|
| <b>Cable length, input side</b>              | 250 mm  |   |
| <b>Cable length, output side</b>             | 250 mm  |   |
| <b>Cable cross-section, input side</b>       | 3 x 1.0 mm <sup>2</sup>                                       |   |
| <b>Cable cross-section, output side</b>      | 2 x 1.5 mm <sup>2</sup>                                       |   |
| <b>Cable preparation length, input side</b>  | 8 mm tinned   |   |
| <b>Cable preparation length, output side</b> | 8 mm tinned   |   |
| <b>Circuit breaker (230V)</b>                | 6 A Type B: 3 pc.<br>10 A Type B: 5 pc.<br>13 A Type B: 6 pc. | 16 A Type B: 7 pc.<br>20 A Type B: 9 pc.<br>25 A Type B: 11 pc. |

## Dimension

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

DC OUTPUT (2 x 1.5 MM<sup>2</sup>)  
BROWN (+)  
BLUE (-)



Unspecified tolerance: ±2

24-06-2024

## Connection



## Important notice

Download the safety instructions at [www.illuburg.de/infocenter](http://www.illuburg.de/infocenter), read them carefully and observe the listed instructions and information for proper use.

## Disclaimer of liability

Subject to changes and errors excepted. Make sure you are using the latest version.

## Manufacturer Information

If you have any further questions, please contact our technical support.

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