

# Datasheet & Operating instructions

## Model: CS5-12V24-D3

LED power supply for 24 Vdc constant voltage

0.1 ...0.5 A, 2.4...12 W, IP65, Built-in installation

TRIAC (leading & trailing edge) dimmable

Flickerfree according to IEEE 1789



## Electrical data

Rated input voltage	220...240 Vac	
Range of input voltage	198...264 Vac	
Range of input voltage (DC)	176...250 Vdc	
Mains frequency	50/60 Hz	
Power factor ( $\lambda$ )	$\geq 0.95$	Full load
Input current	0.08 A max	
Inrush current	5 A max.	
Output voltage	24 Vdc	
Output current	0.1...0.5 A	
Output power (nominal)	2.4...12 W	
Efficiency	$\geq 82\%$	Full load
Life time	> 50,000 h	
Dimming mode	Triac (leading & trailing edge)	
Dimming range	1...100 %	

## Operating condition

Operating temperature range ( $t_a$ )	-20...+50 °C	
Max. Surface temperature ( $t_c$ )	80 °C	
Permitted rel. humidity during operation	5...85 %	
Protection class	II	
Type of protection	IP65	

## Protection

Short circuit protection	Yes *	
Overload protection	Yes *	
No-load protection	Yes *	
Overheating protection	Yes *	

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

## Standards

<b>Standards</b>	EN 61347-1, EN 61347-2-13 EN 62384, EN 60598-1 EN 55015, EN 61547 EN 61000-3-2, EN 61000-3-3	
<b>Marking</b>	CE, UKCA	
<b>RoHS compliant</b>	Yes	

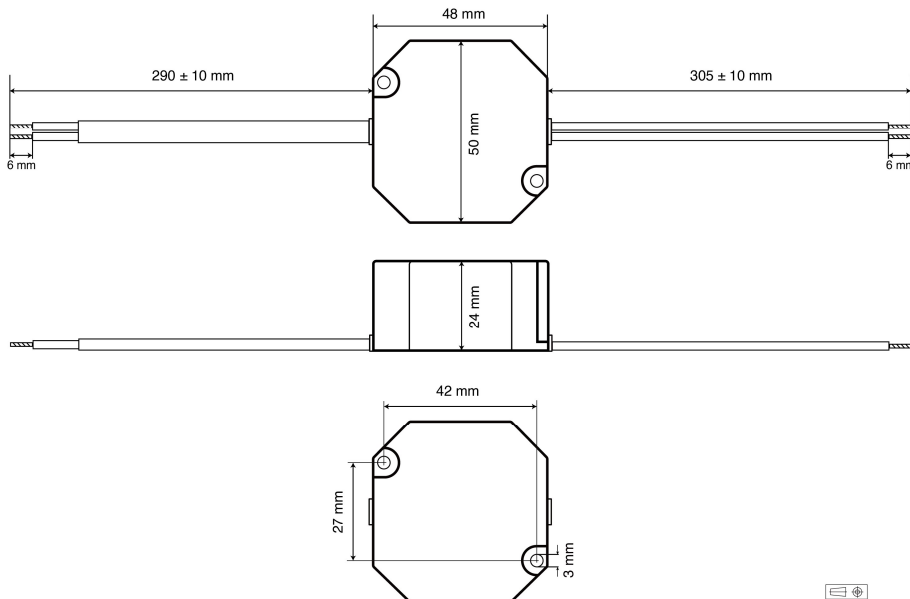
## Installation

<b>Cable length, input side</b>	290 ± 10 mm	
<b>Cable length, output side</b>	305 ± 10 mm	
<b>Cable cross-section, input side</b>	2 x 0.75 mm <sup>2</sup>	
<b>Cable cross-section, output side</b>	2 x 18 AWG	
<b>Cable preparation length, input side</b>	6 mm tinned	
<b>Cable preparation length, output side</b>	6 mm tinned	
<b>Circuit breaker (230V)</b>	10A Type B: 125 pc. 13A Type B: 162 pc. 16A Type B: 200 pc. 20A Type B: 250 pc.	10A Type C: 125 pc. 13A Type C: 162 pc. 16A Type C: 200 pc. 20A Type C: 250 pc.

## Dimension

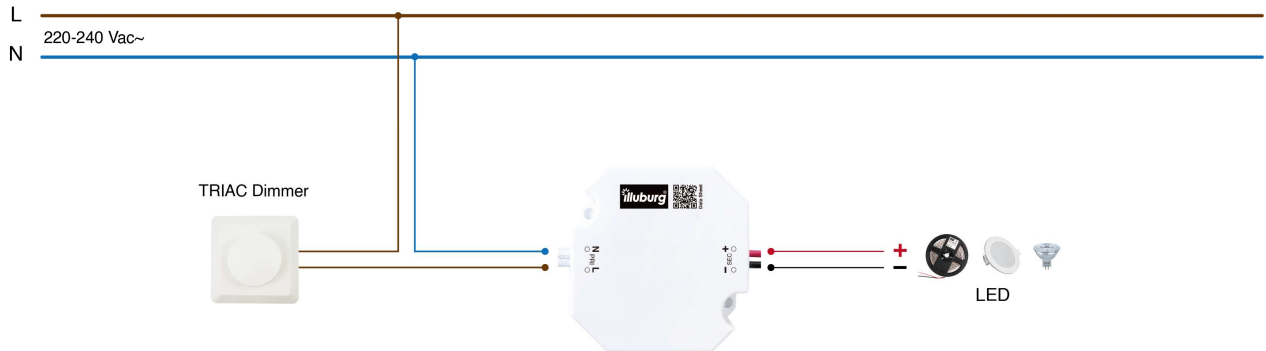
AC INPUT (2 x 0.75 mm<sup>2</sup>)  
BROWN (L)  
BLUE (N)

DC OUTPUT (2 x 18 AWG)  
RED (+)  
BLACK (-)



Unspecified tolerance: ±0.2

## 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.

HuaTec GmbH  
Droopweg 31  
20537, Hamburg, Germany

Telefon: +49 40 236448800  
E-Mail: [info@illuburg.de](mailto:info@illuburg.de)  
Website: [www.illuburg.de](http://www.illuburg.de)

