

# EMG 75-NZG/G15/2 - Power supply



2941044

<https://www.phoenixcontact.com/us/products/2941044>

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Voltage regulator module, secondary switched-mode, default, input 19.5 V-29 V AC/ 27 V-30 V DC, output 15 V DC/2 A

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2941044                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CM11                           |
| Product key                          | CMPL92                         |
| GTIN                                 | 4017918104528                  |
| Weight per piece (including packing) | 320 g                          |
| Weight per piece (excluding packing) | 320 g                          |
| Customs tariff number                | 85044082                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                |                       |
|----------------|-----------------------|
| Operating mode | 100% operating factor |
|----------------|-----------------------|

### Input data

|                             |  |
|-----------------------------|--|
| Nominal input voltage range | 19.5 V AC ... 29 V AC                      |
| Input voltage range         | 27 V DC ... 30 V DC                        |
| Input voltage range DC      | 27 V DC ... 30 V DC                        |
| AC frequency range          | 50 Hz ... 60 Hz                            |
| Nominal power consumption   | approx. 60 VA                              |
| Input fuse                  | 4 A (slow-blow TR 5, internal, solderable) |

### Output data

|                                  |  |
|----------------------------------|--|
| Nominal output voltage           | 15 V DC $\pm 2\%$ (settable from 5.1 V DC ... 24.5 V DC) |
| Nominal output current ( $I_N$ ) | 2 A  |
| Residual ripple                  | $\leq 400$ mV <sub>PP</sub>                              |
| Protective circuit               | Electronic current limitation at 2.8 A; Varistor         |

### Connection data

#### Input

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross-section, rigid min.   | 0.2 mm <sup>2</sup> |
| Conductor cross-section, rigid max.   | 4 mm <sup>2</sup>   |
| Conductor cross-section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross-section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG min.      | 24                  |
| Conductor cross-section AWG max.      | 14                  |
| Stripping length                      | 8 mm                |
| Screw thread                          | M3                  |

#### Output

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross-section, rigid min.   | 0.2 mm <sup>2</sup> |
| Conductor cross-section, rigid max.   | 4 mm <sup>2</sup>   |
| Conductor cross-section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross-section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG min.      | 24                  |
| Conductor cross-section AWG max.      | 14                  |
| Stripping length                      | 8 mm                |
| Screw thread                          | M3                  |

### Signaling

|                           |           |
|---------------------------|-----------|
| Operating voltage display | Green LED |
|---------------------------|-----------|

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## Dimensions

|        |         |
|--------|---------|
| Width  | 75 mm   |
| Height | 70.5 mm |
| Depth  | 75 mm   |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                |
|---------------------------------|----------------|
| Degree of protection            | IP20           |
| Ambient temperature (operation) | 0 °C ... 55 °C |

## Mounting

|                   |                                    |
|-------------------|------------------------------------|
| Assembly note     | can be aligned with spacing = 5 mm |
| Mounting position | On horizontal DIN rail             |

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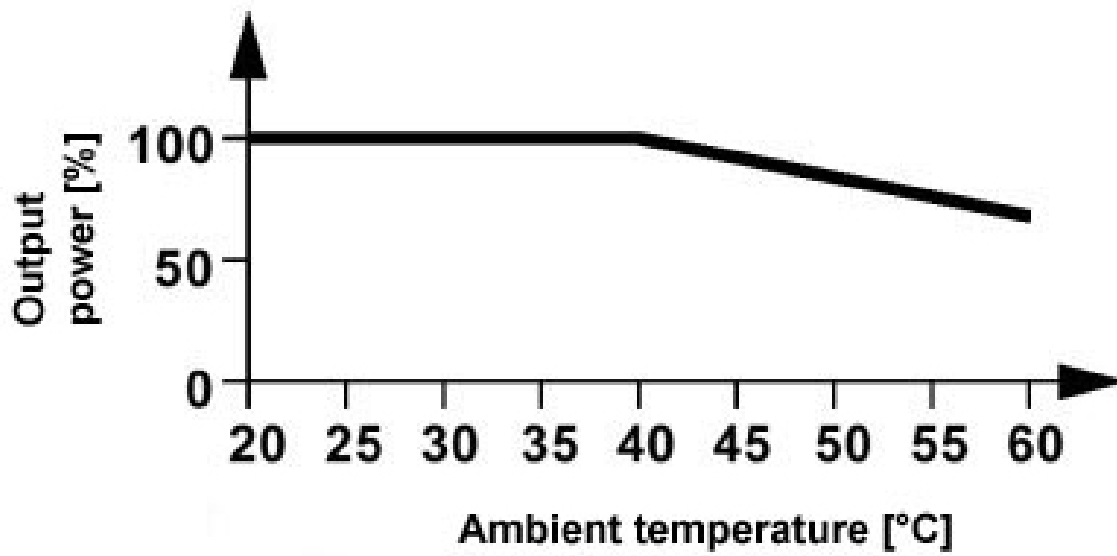


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## Drawings

### Diagram



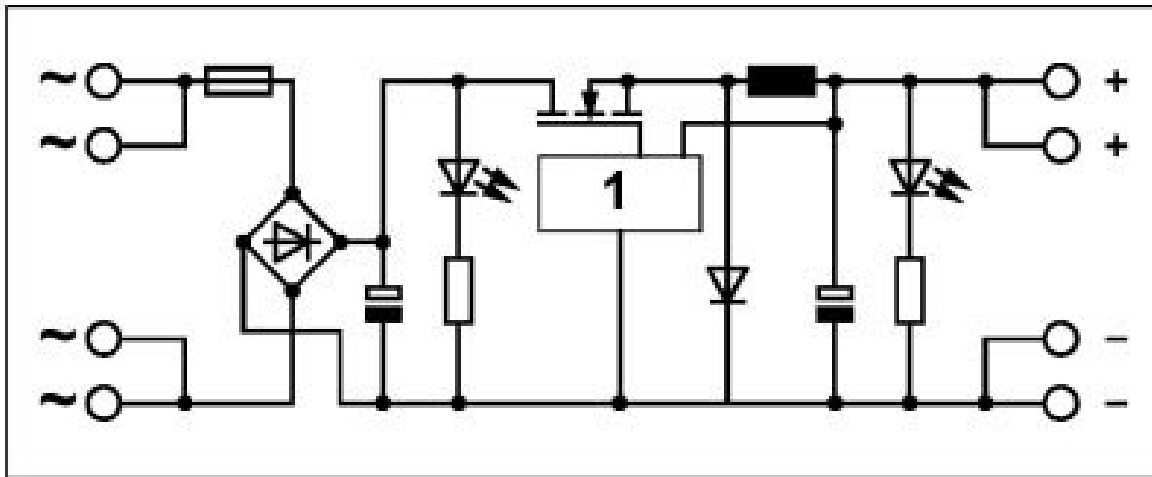
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Circuit diagram



1 = switched-mode regulator

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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