

# EMG 45-NZG/G 5/SI - Power supply



2954963

<https://www.phoenixcontact.com/us/products/2954963>

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Voltage regulator module with fixed-voltage regulator, input 10 V-16 V AC/ 12 V-23 V DC, output 5 V DC/1 A

## Commercial data

Item number	2954963
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CM11
Product key	CMPL91
GTIN	4017918117856
Weight per piece (including packing)	178 g
Weight per piece (excluding packing)	178 g
Customs tariff number	85044082
Country of origin	DE

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## Technical data

### Product properties

Operating mode	100% operating factor
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### Input data

Input voltage	12 V AC 10 %
Nominal input voltage range	12 V AC ... 13.2 V AC
AC frequency range	60 Hz ... 50 Hz
Nominal power consumption	approx. 41 VA
Input fuse	1.25 A (normal-blow (5 x 20))

### Output data

Nominal output voltage	5 V DC $\pm 4$ %
Nominal output current ( $I_N$ )	1 A
Residual ripple	$\leq 150$ mV <sub>PP</sub>
Protective circuit	Thermo-electronic disconnect; 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
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### Signaling

Operating voltage display	Green LED
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## Dimensions

Width	45 mm
Height	86 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	vertical, horizontal

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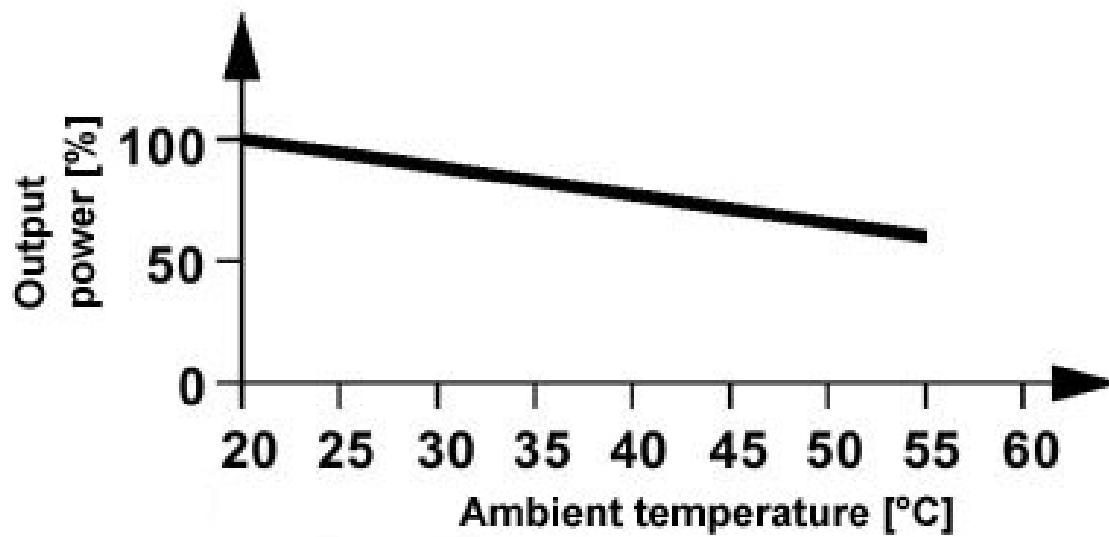
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## Drawings

### Diagram



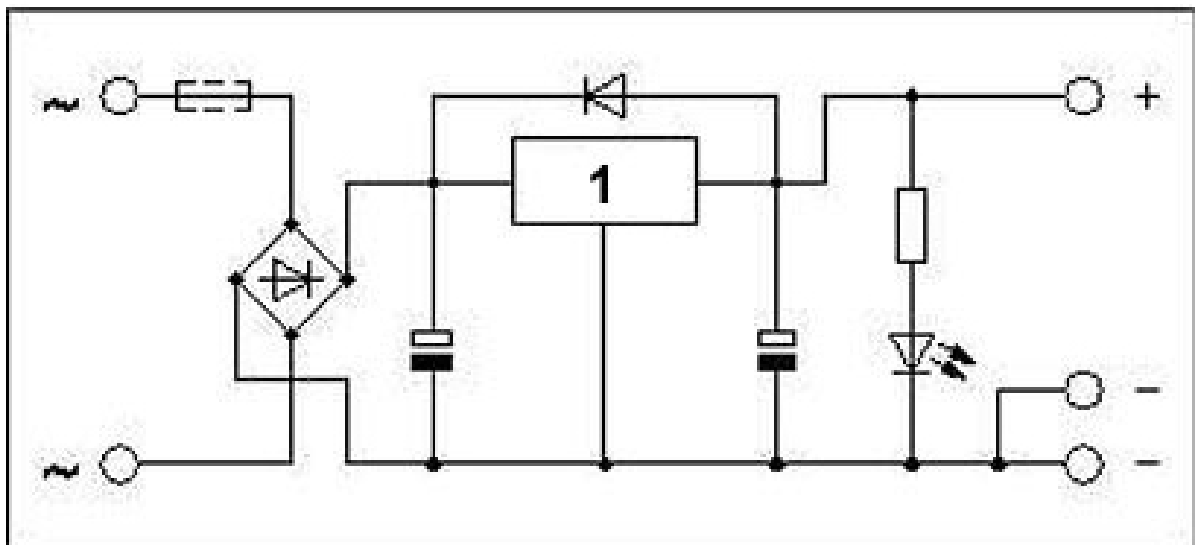
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Circuit diagram



1 = regulator

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### EU REACH SVHC

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