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### DESCRIPTION

The ZPM impulse power suppliers are common supply devices widely used in home and industrial automation, access control systems, monitoring etc. They are characterized by wide range of input voltage, large stability of output voltage, large current load and small dimensions. The impulse power suppliers by means of ADJ potentiometer have the ability to regulate the output voltage value.

### FEATURES

- Input voltage: 200+240 V AC
- output voltage versions 12 V and 24 V,
- output current 0+5 A (for 12 V), 0+2,5 A (for 24 V),
- resistant to no-load state,
- resistant to overload,
- TH-35 rail installation.



### CAUTION

The device is designed for one-phase installation and must be installed in accordance with standards valid in a particular country. The device should be installed according to the details included in this instruction manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the instruction manual and the device's functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to install the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to install the device in the following cases: if any device's part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.



The symbol stands for selective collection of electrical and electronic devices. Placing used devices with other waste is not allowed

### TECHNICAL DATA

#### ZPM-60/12

Current range:	0 ÷ 2 A
Output rated current:	5 A
Rated power:	60 W
Output voltage:	12 V DC
Pulsations and noises (max):	120 mVpp
Range of changes of output voltage (ADJ):	10,8 ÷ 13,2 V DC
Efficiency:	81 %

#### ZPM-60/24

Current range:	0 ÷ 1,5 A
Output rated current:	2,5 A
Rated power:	60 W
Output voltage:	24 V DC
Pulsations and noises (max):	150 mVpp
Range of changes of output voltage (ADJ):	21,6 ÷ 26,4 V DC
Efficiency:	83 %

#### Common features of the ZPM power suppliers

Output voltage tolerance:	1 %
Input voltage range:	200 ÷ 240 V AC
Frequency range:	50/60 Hz
Overload resistance:	yes 105 ÷ 160% of rated power
Input current:	0,48 A / 230 V AC
Overvoltage protection:	yes
Resistant to no-load state:	yes
EMI – conducted and radiated:	EN 55011; EN 55022
Simple harmonic current:	EN 61000-3-2; -3
Ambient temperature range:	-20 ÷ +60 °C
Humidity:	20 ÷ 90 %
Thermal protection:	no
Protection level:	II
Overvoltage category:	II
Pollution degree:	2
Casing protection degree:	IP20 (PN-EN 60715)
Mounting:	TH 35 rail
Operating position:	free
Dimensions:	93 x 77,4 x 56 mm
Weight:	0,25 kg
Reference standards:	EN 60950-1, EN 61000-3-2 EN 61000-3-3

## MOUNTING

1. Disconnect the power supply from the mains by: the phase fuse, circuit-breaker or switch disconnector joined to the proper circuit.
2. **By means of special equipment check if there is no voltage on the connection cables.**
3. Install **ZPM-XX** device in the switch-board on the TH-35 rail.
4. Connect the cables to the terminals
5. Switch on the power supply from the mains.

## LEGEND



Output voltage regulation



The construction is made in the protection level II

## PRODUCT FAMILY

Impulse power suppliers ZPM-60/12 and ZPM-60/24 belong to the following product family:

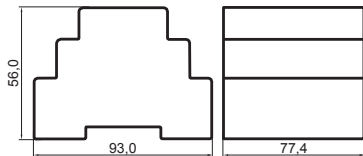
### ZPM-xx/xx

Output voltage:  
12 - 12 V DC  
24 - 24 V DC

Rated power:  
30 - 30 W  
60 - 60 W  
100 - 100 W

Symbol

## CASING DIMENSIONS

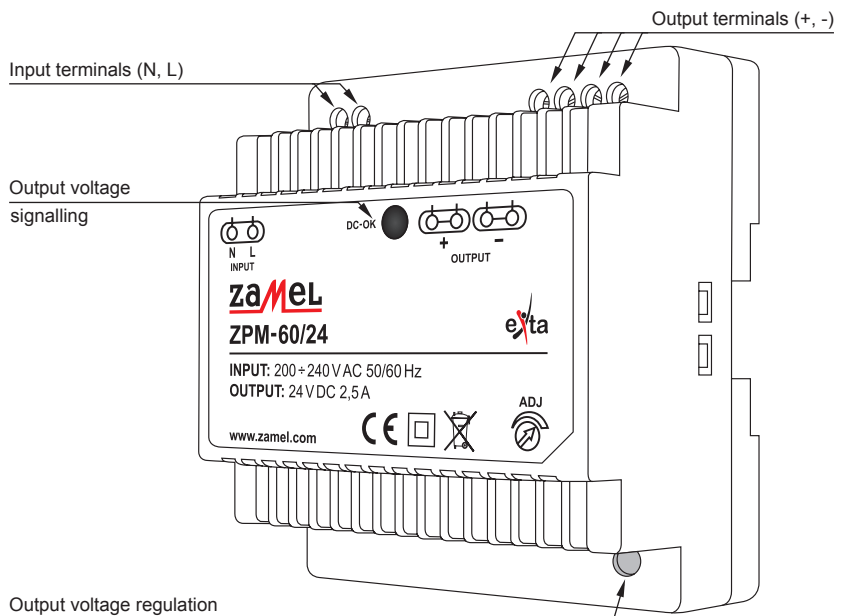
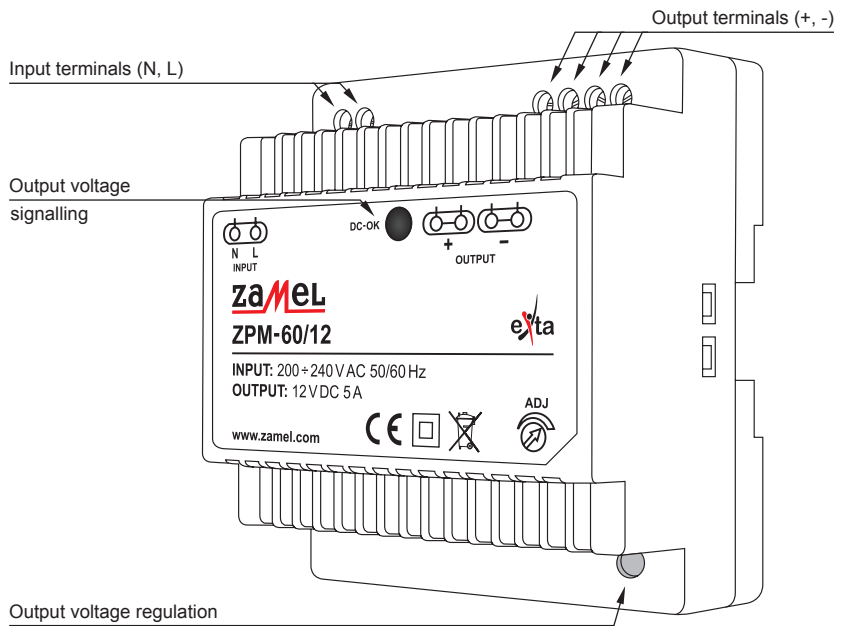


## GUARANTEE CARD

There is 24 months guarantee on the product

Salesman stamp and signature, date of sale

## APPEARANCE



1. ZAMEL Ltd. assures 24 months guarantee for the product.
2. The manufacturer's guarantee does not cover any of the following actions:
  - a) mechanical damage during transport, loading / unloading or under other circumstances
  - b) damage caused by incorrect mounting or misuse of ZAMEL Ltd. products
  - c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices needed for the proper product functioning,
  - d) damage caused by Act of God or any other incidents independent of the manufacturer
3. The PURCHASER shall lay any claims on grounds of the guarantee card in writing to the dealer or to ZAMEL Ltd.
4. ZAMEL Ltd. is liable for processing any claim according to current Polish legislation
5. ZAMEL Ltd. shall process the claim at its own discretion: product repair, replacement or money return
6. The manufacturer's guarantee is valid in the Republic of Poland.
7. The Purchaser's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this guarantee card.