



F&F Filipowski sp. j.  
ul. Konstytucyjowa 79/81, 95-200 Pabianice  
tel./fax (+48 42) 215 23 83 / (+48 42) 227 09 71  
www.fif.com.pl; e-mail: biuro@fif.com.pl

## ZI-12

Low voltage  
pulse stabiliser



5190831215958921

**Nie wyrzucać tego urządzenia do śmietnika razem z innymi odpadami!** Zgodnie z ustawą o zużytych sprzęcie, elektrośmieci pochodzące z gospodarstwa domowego można oddać bezpłatnie i w dowolnej ilości do utworzonego w tym celu punktu zbierania, a także do sklepu przy okazji dokonywania zakupu nowego sprzętu (w myśl zasady stary za nowy, bez względu na markę). Elektrośmieci wyrzucone do śmietnika lub porzucone na łonie przyrody, stwarzają zagrożenie dla środowiska oraz zdrowia ludzi.



### Purpose

The ZI-12 stabiliser is used to supply electrical and electronic equipment with medium power consumption, which requires a stable, filtered supply voltage independent of mains voltage variations.

### Functioning

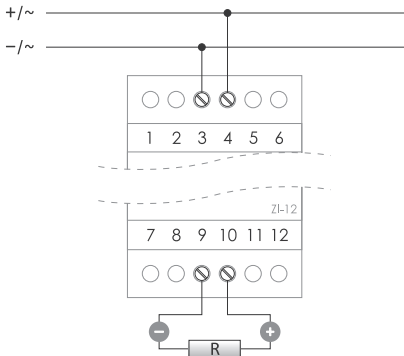
AC or DC voltage (pulsed or filtered) can be connected to the input terminals. Due to the high operating frequency of the inverter, some very sensitive radio or microprocessor devices may malfunction. It is recommended to install an additional filter (consisting of a current-compensated choke with inductance  $2 \times 5-15$  mH and capacitor  $C = 0.33-1 \mu\text{F}$ ) between the power supply and the load. When increasing the load above  $I_{\text{max}}$ , the power supply will stabilise the current and the output voltage will drop.

When the output terminals are short-circuited, the power supply operates at a frequency of approximately 1.5 kHz, which manifests itself as a distinct squeal.

## Mounting

1. Disconnect the power supply.
2. Connect the mains cables to the input terminals (3-4) of the power supply, according to the diagram.
3. Connect the receiver to the output terminals of the power supply according to the polarity marked.

## Wiring diagram



## Technical data

input voltage	12÷28 V AC 16÷37 V DC
output voltage	12 V DC
output current	3 A
current limitation	110% I <sub>out</sub>
minimum load	0%
key frequency	52 kHz
terminal	2.5 mm <sup>2</sup> screw terminals
tightening torque	0.4 Nm
working temperature	-10÷40°C
dimensions	3 modules (52.5 mm)
weight	150 g
mounting	on TH-35 rail
ingress protection	IP20

## Warranty

F&F products are covered by a 24-month warranty from the date of purchase. The warranty is only valid with proof of purchase. Contact your dealer or contact us directly.

## CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at [www.fif.com.pl](http://www.fif.com.pl) from the product subpage.

