

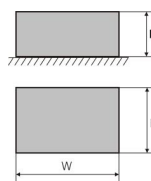
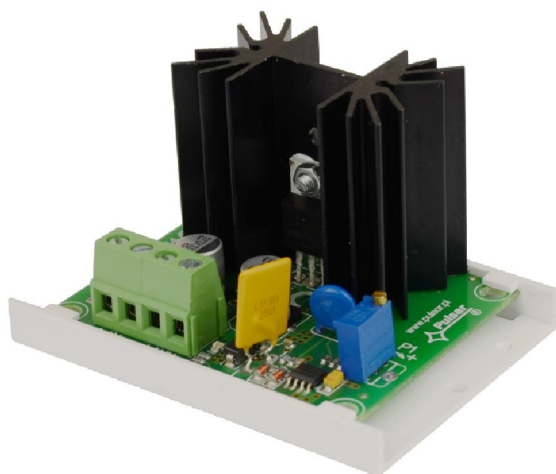
RN series voltage reducer

DC voltage reducer 12V DC, linear



CODE: **RN 250** v.1.0/VI
NAME: **RN 12V/2,5A DC voltage reducer**

EN



Features:

- supply voltage of 14V DC max.
- power output 12V DC/2,5A
- output voltage adjustment range $11V \pm U_{in}$
- linear voltage stabilization
- lossless conductivity below stabilisation threshold
- LED indication
- protections:
 - SCP short circuit protection
 - OLP overload protection
- warranty – 2 year from the production date

DESCRIPTION

The **RN 12V/2,5A (RN250)** is intended for lowering and stabilising DC voltage within the range of $12 \pm 14V$ into the value of 12V (adjustment $11V \pm U_{in}$ DC). In the case when the output voltage drops below the preset output value, the transistor opens and the reducer conducts without any loss (voltage drop $\Delta U < 1\%$). That enables full use of energy accumulated in the PSU's battery during batter-assisted operation.

The **RN250** voltage reducer along with a typical buffer PSU is intended for supplying devices that require voltage of $10V \pm 12V$ DC. It is particularly dedicated for CCTV systems (cameras, IR illuminators), KD access control systems and others which feature devices supplied with voltage of 12V DC ($-10\%/+5\%$) and cannot be powered directly from the 13,8V DC output of a buffer PSU.

DESCRIPTION

Supply voltage	max. 14V/DC ($-/+5\%$)
Output voltage	$< 12V$ DC nom. ($\pm 0,3V$)
Output voltage adjustment range	$11V \pm U_{in}$ (preset 12V DC)
Power of the receiver	30W max.
Output current	2,5A max.
Current drawn by the module's systems	5 mA max.
Protection against a short circuit (SCP) and an overload (OLP)	$110\% \div 150\%$ of reducer's power – current limiting by the PTC resettable fuse, manual restart
LED indication - IN diode indicating DC power status - AUX diode indicating DC power status at the module's output	- red - green
Operating conditions	II environmental class, $-10^{\circ}C \div +40^{\circ}C$
Dimensions	76 x 54 x 45 (WxHxD)
Fixing	A mounting panel with an adhesive tape, dowel pins x 4 (PCB $f_i=4,2$ mm)
Connectors	screw connectors $\Phi 0,41 \div 1,63$ (AWG 26-14)
Net/gross weight	0,06kg/0,11kg
Declarations, warranty	CE, 2 year from the production date