

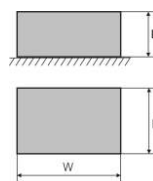
RN series voltage reducer

DC voltage reducer 12V/DC, linear



CODE: **RN250** v.1.0/V
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÷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÷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. (+/- 0,3V)
Output voltage adjustment range	11 V±U _{in} (preset 12V DC)
Power of the receiver	30W max.
Output current	2,5 A max.
Current drawn by the module's systems	5 mA max.
Protection against a short circuit (SCP) and an overload (OLP)	110% ÷ 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°C ÷ +40°C
Dimensions	76 x 54 x 45 (WxHxD)
Fixing	A mounting panel with an adhesive tape, dowel pins x 4 (PCB fi=4,2 mm)
Connectors	screw connectors $\Phi 0,41 \pm 1,63$ (AWG 26-14)
Net/gross weight	0,06kg/0,11kg
Declarations, warranty	CE, 2 year from the production date