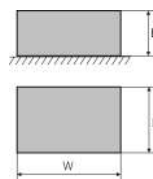
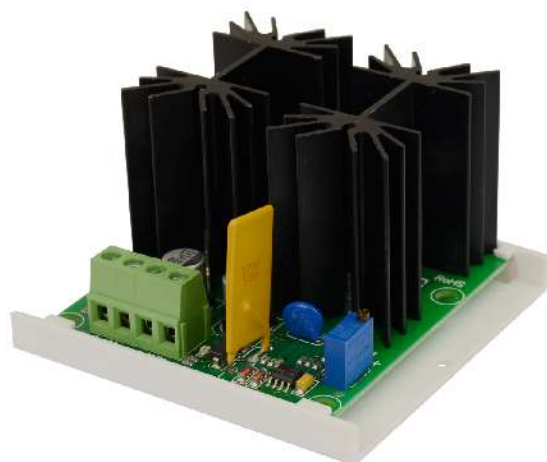


CODE: **RN500 v.1.0/IV**
 NAME: **RN 12V/5A DC voltage reducer**

EN



Features:

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

DESCRIPTION

The RN 12V/5A (RN500) is intended for lowering and stabilising DC voltage within the range of 12÷14V into the value of 12V (adjustment 11V±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 ΔU<1%). That enables full use of energy accumulated in the PSU's battery during batter-assisted operation.

The RN500 voltage reducer along with a typical buffer PSU is intended for supplying devices that require voltage of 10V÷12 V 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 13,8 DC output of a buffer PSU.

SPECIFICATIONS

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	60W max.
Output current	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 70 x 45 (WxHxD)
Fixing	A mounting panel with an adhesive tape, dowel pins x 4 (PCB fi=4,2 mm)
Connectors	screw connectors Ø0,41±1,63 (AWG 26-14)
Net/gross weight	0,1kg/0,14kg
Declarations, warranty	CE, RoHS, 5 year from the production date