

CODE: **DC/DC25SU** v.1.0/II
 TYPE: **DC/DC 2,5A Step up DC/DC converter with adjustable output voltage**



The module's features:

- The step up DC/DC converter with adjustable output voltage
- Example of use: increasing voltage from 12V DC to 24V DC
- The input voltage range: 9,5V÷16V DC
- The output voltage range: 18÷28V DC
- The maximum load current 2,5A (60W)
- The PSU technical output indicating converter failure triggered by:
 - Short-circuit of the output
 - Output overload
- Protections:
 - Short-circuit protection SCP
 - Overload protection OLP
- High efficiency: 94%
- Optical LED indication
- Warranty – 2 years from the production date
- Mounting:
 - Mounting strip with adhesive tape
 - Mounting screws

DESCRIPTION

The **DC/DC 2,5A (DC/DC25SU)** step up converter increasing the input voltage from the range between 9,5V÷16V DC to the voltage range of 18V÷28V DC at the output, adjusted with the **V_{ADJ}** potentiometer. The maximum load current is **I_{max}=2,5A (P_{max} = 60W)**. The module does not feature galvanic isolation between input/output (IN-AUX) and operates on common "ground" (0V) potential (IN- and AUX- terminals are galvanically connected = common terminal).

The input voltage range (power supply)	9,5V÷16V DC
The output voltage range	18V÷28V DC, factory setting: 24V
P module power	60W max.
Energy efficiency	90%÷ 94%
Ripple voltage	50mV p-p max
Output current	2,5A max.
Current consumption by module systems	15 mA max.
Short-circuit protection and overload OLP	110-150% of the module's power, manual restart (the failure requires disconnection of the DC output circuit)
Technical outputs - PSU output indicating failure – overload or short-circuit in the AUX output	- OC type, 50mA max. Failure status: hi-Z state (high impedance), normal status: L level (0V)
Optical indication - IN LED indicating DC power status - AUX LED indicating DC supply status at the output - PSU LED indicating failure - overload or short-circuit in the AUX output	- red, normal status: is lit continuously - green, normal status: is lit continuously - red, normal status: does not lit, failure: is lit continuously
Operating conditions	II environmental class, -10°C ÷40°C, ensure air flow around the unit for convection cooling
Dimensions	140 x 43 x 45 (L x W x H)
Net/gross weight	0,15/0,18 kg
Mounting	mounting tape or mounting screw x 2
Declarations, warranty	CE, 2 years from the production date