

CODE: **DC/DC48250** v.1.0/II  
 TYPE: **DC/DC 48V/2,5A Step up DC/DC converter**



**The module's features:**

- The step up DC/DC converter
- Example of use: increasing voltage from 24V to 48V DC
- The input voltage range: 18÷28V DC
- The output voltage range: 48V DC
- The maximum load current 2,5A (120W)
- 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: 96%
- Optical LED indication
- Warranty – 2 years from the production date
- Mounting:
  - Mounting strip with adhesive tape
  - Mounting screws

**DESCRIPTION**

The **DC/DC 48V/2,5A (DC/DC48250)** step up converter increasing the input voltage from the range between 18V÷28V DC to the voltage range of **48V DC** at the output. The maximum load current is **I<sub>max</sub>=2,5A (P<sub>max</sub> = 120W)**. 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).

<b>The input voltage range (power supply)</b>	18V÷28V DC
<b>The output voltage range</b>	48V DC +/- 1V
<b>P module power</b>	120W max.
<b>Energy efficiency</b>	94%÷ 96%
<b>Output voltage range</b>	48V DC +/- 1V
<b>Ripple voltage</b>	150mV p-p max
<b>Output current</b>	2,5A max.
<b>Current consumption by module systems</b>	25 mA max.
<b>Short-circuit protection and overload OLP</b>	110-150% of the module's power, manual restart (the failure requires disconnection of the DC output circuit)
<b>Technical outputs</b> - 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)
<b>Optical indication</b> - 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
<b>Operating conditions</b>	II environmental class, -10°C ÷40°C, ensure air flow around the unit for convection cooling
<b>Dimensions</b>	140 x 43 x 45 (L x W x H)
<b>Net/gross weight</b>	0,15/0,20 kg
<b>Mounting</b>	mounting tape or mounting screw x 2
<b>Declarations, warranty</b>	CE, 2 years from the production date