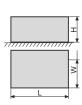


**EN** 

CODE: **DC/DC48250** v.1.0/II

TYPE: DC/DC 48V/2,5A Step up DC/DC converter





CE

## 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 **Imax=2,5A (Pmax = 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).

The input voltage range (power supply)	18V÷28V DC
The output voltage range	48V DC +/- 1V
P module power	120W max.
Energy efficiency	94%÷ 96%
Output voltage range	48V DC +/- 1V
Ripple voltage	150mV p-p max
Output current	2,5A max.
Current consumption by module systems	25 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-	- OC type, 50mA max. Failure status: hi-Z state (high
circuit in the AUX output	impedance), normal status: L level (0V)
Optical indication	
- IN LED indicating DC power status	- red, normal status: is lit continuously
- AUX LED indicating DC supply status at the output	- green, normal status: is lit continuously
- PSU LED indicating failure - overload or short-	- red, normal status: does not lit, failure: is lit continuously
circuit in the AUX output	
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	0,15/0,20 kg
Mounting	mounting tape or mounting screw x 2
Declarations, warranty	CE, 2 years from the production date