

CODE: **DC/DC50SD-SEP** v.1.0/I
 TYPE: **DC/DC 5A step down DC/DC converter with separation**



The module's features:

- The DC/DC voltage - step down converter
- Example of use: voltage - step down from 24V to 12V DC
- Input voltage range: 20÷28V DC
- Output voltage: 12V DC
- Maximum load current 5A (60W)
- Protections:
 - Short-circuit protection SCP
 - Overload protection OLP
 - Over voltage protection OVP
- Galvanic separation between input/output (IN-AUX)
- High efficiency: 87%
- Optical LED indication
- Warranty – 2 years from the production date
- Mounting:
 - Mounting strip with adhesive tape
 - Mounting screws

Description

The **DC / DC 5A (DC / DC50SD-SEP)** buck converter is used to reduce the voltage from 20V ÷ 28V DC at the converter input to 12VDC at the output. The maximum load current is $I_{MAX}=5A$ ($P_{MAX} = 60W$). The module is galvanically isolated between the input and output (IN-AUX).

The input voltage range (power supply)	20V÷28V DC
The output voltage range	12V DC
P module power	60W max.
Energy efficiency	87%
Ripple voltage	50mV p-p max.
Output current	5A max.
Current consumption by module systems	50 mA max.
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	110-150% of the module's power, manual restart (the failure requires disconnection of the DC output circuit)
Overvoltage protection OVP	>16V (activation requires disconnecting the load or supply for about 20 s.)
Optical indication - IN LED indicating DC power status - AUX LED indicating DC supply status at the output	- red, normal status: is lit continuously - green, normal status: is lit continuously
Insulation electrical strength - between the input (IN), and the output circuits of the converter (AUX) (I/P-O/P)	500 V/DC min.
Insulation resistance - between input, output, and protective circuit	100MΩ, 500V DC
Operating conditions	II environmental class, -10°C ÷ +40°C, ensure air flow around the unit for convection cooling
Dimensions	150 x 50 x 60 (L x W x H)
Net/gross weight	0,23/0,27 kg
Mounting	mounting tape or mounting screw x 2
Declarations, warranty	CE, 2 years from the production date