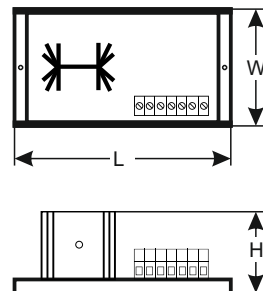
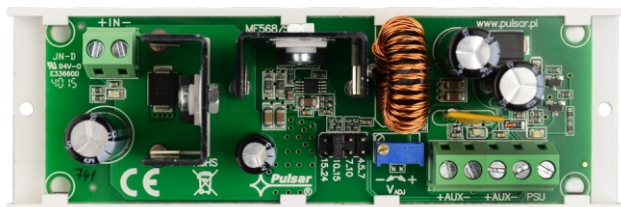


CODE: **DC/DC30SD** v.1.0/II  
 TYPE: **DC/DC 3A Step down DC/DC converter with adjustable output voltage.**



**The module's features:**

- Step down DC/DC converter with adjustable output voltage
- Example of use: step down from 24V to 12V DC
- The input voltage range: 8÷28V DC
- The output voltage range: 4,5÷24V DC
- The minimum difference between input (lowered) and output voltage: 2V
- The maximum load current 3A (36W)
- 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: 93%
- Optical LED indication
- Warranty – 2 years from the production date
- Mounting:
  - Mounting strip with adhesive tape
  - Mounting screws

**DESCRIPTION**

The step down converter **DC/DC 3A (DC/DC30SD)** is used for step down the input voltage from the range between 8V÷28V DC to the voltage range of 4,5V÷24V DC at the output, adjusted with the **V<sub>ADJ</sub>** potentiometer. The maximum load current is **I<sub>max</sub>=3A (P<sub>max</sub> = 36W)**. The 2V difference between the input (lowered) and output voltage is required for the proper operation of the converter. 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>	8V÷28V DC depending on the range set by the jumper
<b>The output voltage range</b>	4,5V÷7V, 7V÷10V, 10V÷15V, 15V÷24V Jumper adjustable. Factory setting: 12V.
<b>The minimum difference between the input and output voltage</b>	2V
<b>P module power</b>	36W max.
<b>Energy efficiency</b>	86%÷ 93%
<b>Ripple voltage</b>	80mV p-p max
<b>Output current</b>	3A max.
<b>Current consumption by module systems</b>	20 mA max.
<b>Short-circuit protection SCP</b>	electronic, automatic recovery
<b>Overload protection 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>	L=130, W=43, H=45 [+/- 2mm]
<b>Net/gross weight</b>	0,15/0,18 kg
<b>Mounting</b>	mounting tape or mounting screw x2
<b>Declarations, warranty</b>	CE, 2 years from the production date