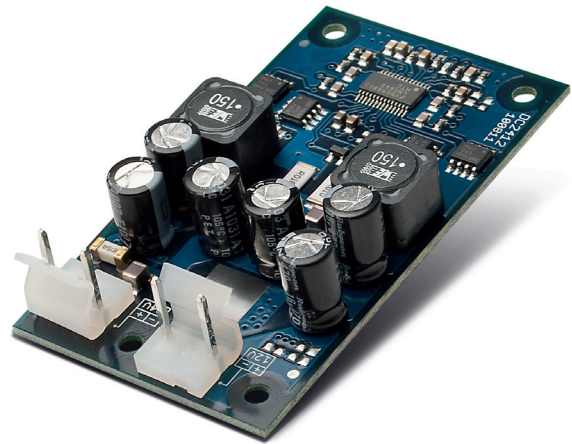


# DC2412

## 110 Watt

- DC/DC converter 24 V to 12 V
- 18...30 VDC input range
- High efficiency up to 93 %

The particularly small DC-DC converter generates a controlled output voltage of 12 V DC. It has been designed for direct supply of single-board computers (SBC) or their peripherals from 24 V DC. The DC2412 is characterized by high efficiency and low heat loss. Suitable for use in industrial and medical devices it is of robust construction and built from high-quality components.



### Technical data

Input voltage	18...30 VDC
Input current	6.7 A max. (18 VDC)
Inrush current	App. 70 A at +25 °C
Efficiency	89...93 %
Protection	Short circuit protection: Switch off Overload protection: >11.5 A Overvoltage protection: At input app. 32 VDC Subvoltage protection: App. 17.7 VDC Inverse polarity protection: No Temperature switch off: Yes
Insulation voltage	No separation between input and output
Operating temperature	-10...+70 °C
Derating	+50...+70 °C, 2.6 W / °C
Storage temperature	-25...+70 °C
Operating humidity	10...90 % RH, non-condensing
Dimensions (WxDxH)	44.6 x 79 x 18 mm ±0.5 mm
Weight (net)	0,04 kg

### Product specific data

Load dump	On demand
Input capacitance	<270 µF

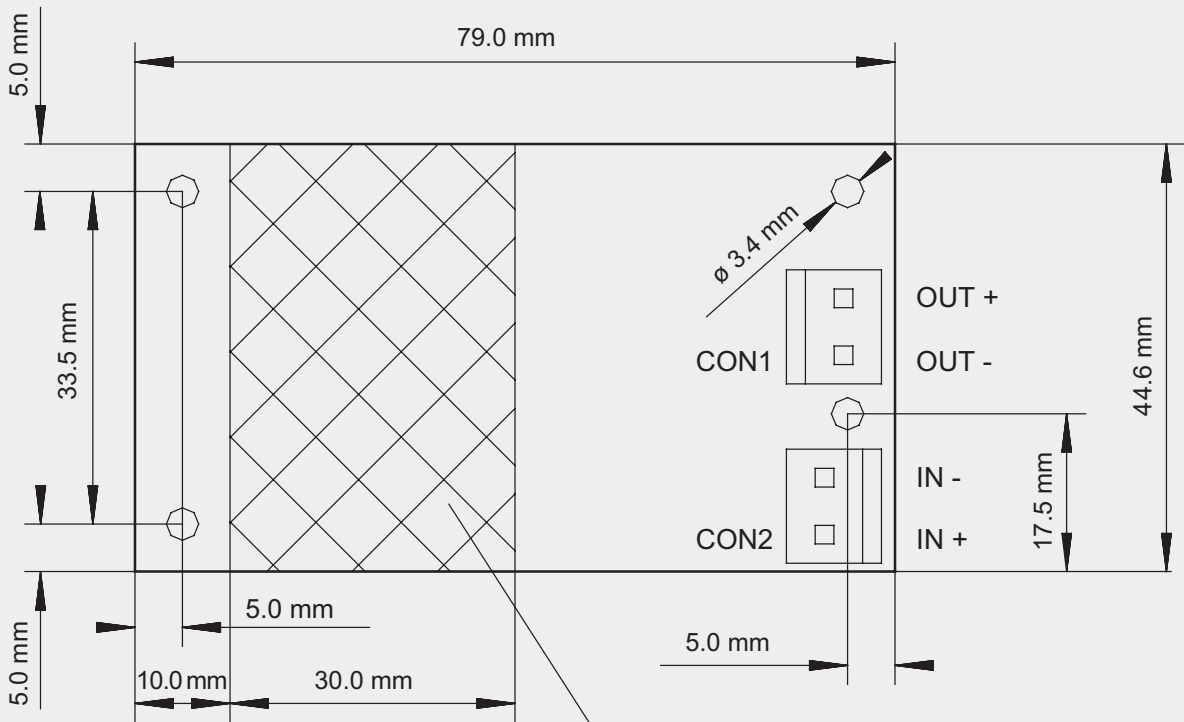
**Advice!** In case of a temperature connection of the PCB to the chassis bottom via Gap Pad® the PCB temperature decreases depending on the ambient temperature by approx. 10...20 °C.

Article No.	Output voltage	Output current			Load regulation	Line regulation	Ripple & Noise
		min	max	peak			
DC2412	+12 V	0 A	9.3 A	11.5 A	±5 %	±1 %	125 mV

Max. output power must not exceed 110 W. Ripple and noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 470 nF ceramic capacitor at each output. For connection to a low voltage mains supply an additional input filter may be required.

As a power component this PSU is for assembly purposes only and must not be operated in unassembled conditions. The final assembly has to comply with the valid EMC and safety standards.

Drawing DC2412



Position of Gap Pad®, if needed

Connectors:  
CON1, CON2:  
Molex: 09-65-2029 or equal

Tolerance  $\pm 0.8$  mm

Specification is subject to change without notice. Errors excepted. Status as at: 16.04.2012