

BEC-100-12VC

100 Watt

- Operating temperature -20...+70 °C
- High efficiency
- Widerange input

The DC/DC converter BEC-100-12VC is distinguished by its widerange input and high efficiency. With 100 W power this DC/DC converter can be applied both for 12 V DC and 24 V DC vehicle voltages. The output voltage is galvanically isolated from the input and regulated. Cooling for the BEC-100-12VC is done either by means of a heatsink or optionally by an extension to the casing.



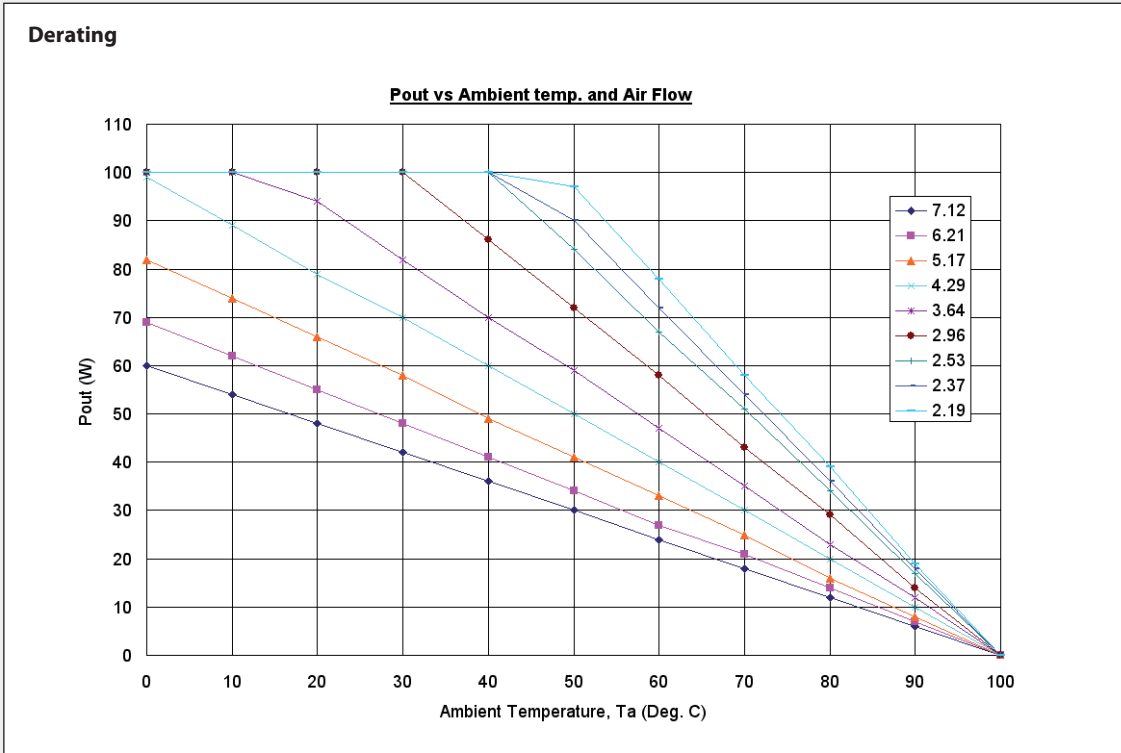
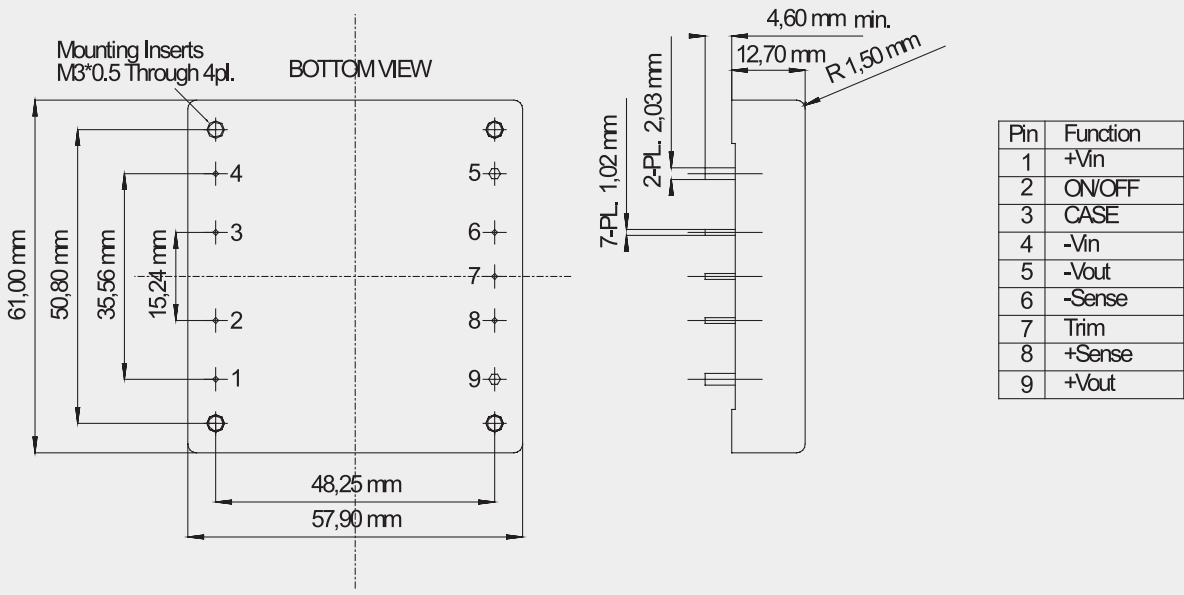
Technical data	
Input voltage	10...36 VDC
Inrush current	17 A max (10 VDC), 5.5 A max. (24 VDC)
Efficiency	App. 82 %
Protection	Short circuit protection: yes, auto-recovery Overtemperature protection: Switch off at app. +100 °C (chassis temperature), auto-recovery
Insulation voltage	1500 VDC Input / Output
Safety	Designed according to EN60950
Operating temperature	-20...+70 °C
Derating	Depending on ambient operating temperature, load and cooling
Cooling	For fanless operation at + 50 °C a heatsink with a thermal resistance of ≤ 2 K / W is required.
MTBF	900 000 h at +25 °C according to MIL-HDBK-217F
Storage temperature	-40...+85 °C
Operating humidity	10...90 % RH, non-condensing
Dimensions	57.9 x 61.0 x 12.7 mm ± 0.5 mm
Weight (net)	0.1 kg

Product specific data	
Adjustable range	Output voltage ± 10 %
On / Off function	PIN2 open = On / <0.8 VDC = Off
Switching frequency	350 kHz
Line regulation	± 0.2 %
Load regulation	± 0.2 %

Article No.	Output voltage	Output current		Ripple & Noise
		min	max	
BEC-100-12VC	+12 V	0 A	8,3 A	150 mV

Ripple and noise was measured by a 15 MHz bandwidth limited oscilloscope with connected 10 nF Tantalum capacitor and 1 μ F ceramic capacitor at each output.
As a power component this PSU is for assembly purposes only and must not be operated in unassembled condition. The final assembly has to comply with the valid EMC and safety standards.

Drawing BEC-100-12VC



Tolerance ±0.5 mm

Specification is subject to change without notice. Errors excepted. Status as at: 09.12.2011

DC/DC converters