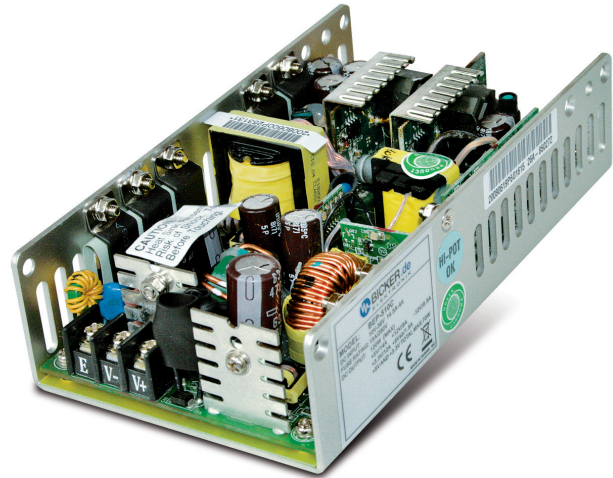


# BEP-510C

120 Watt

- 10...36 V DC input
- 100 Watt continuous fanless power!
- Operating temperature up to +70 °C

The ATX PC power supply BEP-510C is designed for the installation into fanlessly operating computers in industrial applications. With its wide input voltage range from 10–36 VDC the BEP-510C equally covers 12 V and 24 V vehicle voltages. Its robust construction and high-grade components make it particularly suitable for industrial and automotive applications. The ATX cable harness is firmly connected. For connection to mains voltage the related model BEP-510 is available.



DC input

## Technical data

Input voltage	10...36 VDC
Input current	15 A max. (10 VDC)
Inrush current	15 A max.
Efficiency	>80 %
Hold up time	>2 ms
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Short circuit protection: At each output, switch off, +5 V <sub>sb</sub> auto-recovery Input: fuse-protected Overvoltage protection: +3.3 V (3.6...4.3 V), +5 V (5.6...6.5 V), 12 V (13.2...15 V)
Insulation voltage	Input / Chassis: 1500 VAC for 60 sec. Input / Output: 3000 VAC for 60 sec.
Earth leakage current	3.5 mA
Safety / EMC	CE, designed according to EN 60950-1 and UL 60950-1
Operating temperature	0...+70 °C
Derating	See diagrams below on the right and next page
Storage temperature	-20...+80 °C
Operating humidity	10...90 % RH, non-condensing
Dimensions (WxDxH)	83.8 x 152 x 39 mm ±0.4 mm
Weight (net)	0.5 kg

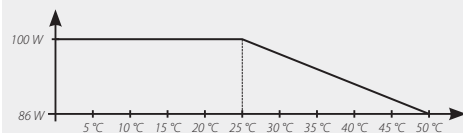
Article No.	Output voltage	Output current		Load regulation	Ripple & Noise
		min	max		
BEP-510C	+3.3 V	0 A	12 A	±5 %	50 mV
	+5 V	0 A	14 A	±5 %	50 mV
	+12 V	0 A	8 A	±5 %	120 mV
	-12 V	0 A	0.5 A	±10 %	120 mV
	+5 V <sub>sb</sub>	0 A	1 A	±5 %	50 mV

Combined output load at +3.3 V and +5 V must not exceed 70 W (50 W without fan). Max. output is 100 W, with 20 CFM fan it is 120 W. Ripple & Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 100 µF tantalum capacitor and 0.1 µF 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.

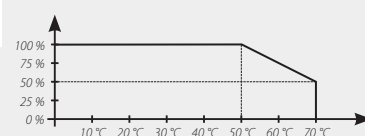
### Supplementary data for derating from +50...+70 °C

- 86 W fanless
- 120 W with 20 CFM fan
- Output current per channel
- Load at +3.3 V / +5 V without fan (50 W)
- Load at +3.3 V / +5 V with 20 CFM fan (70 W)

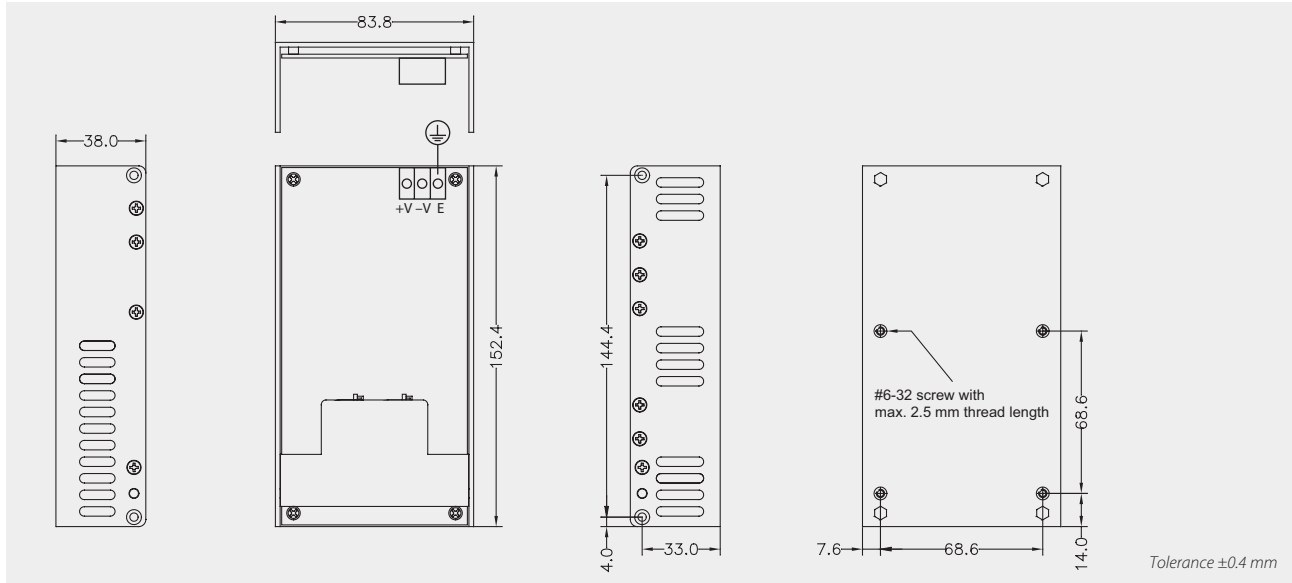
### Fanless operation from 0...+50 °C



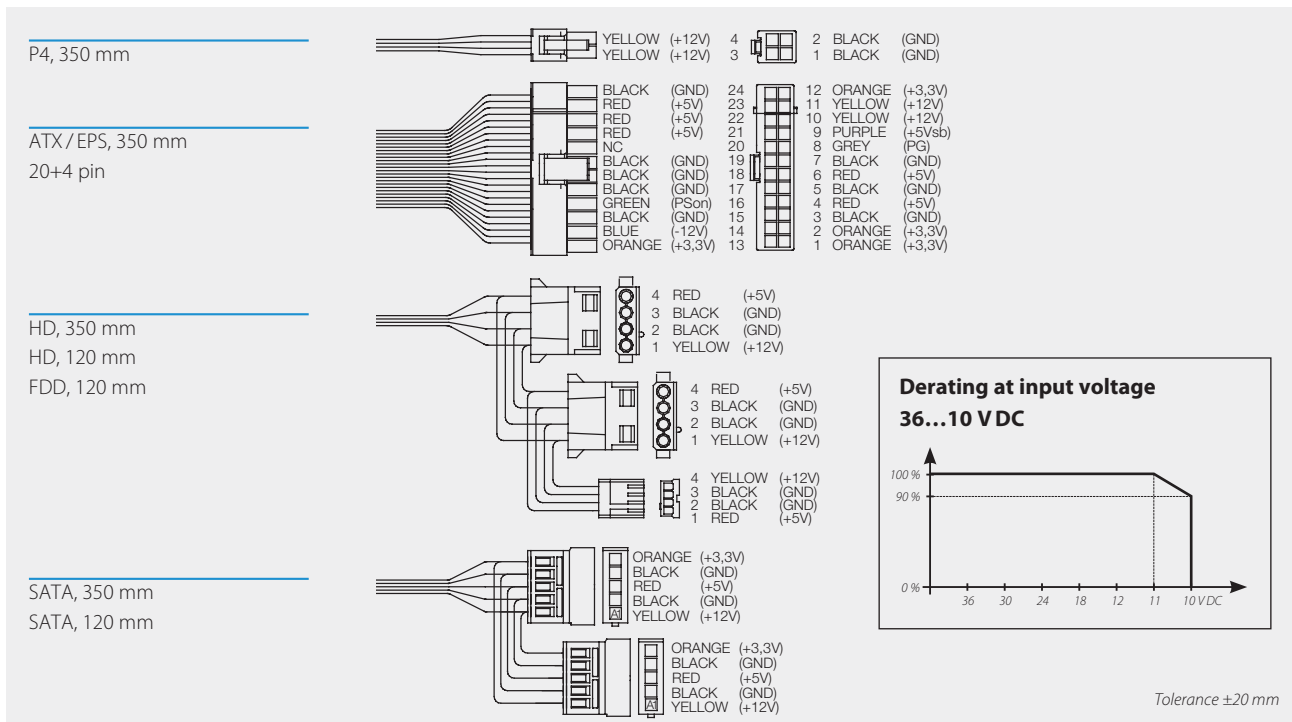
### Derating from +50...+70 °C



## Drawing BEP-510C

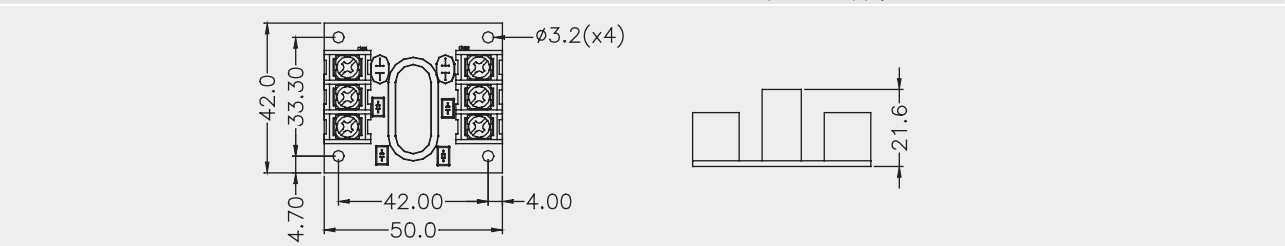


## Cable harness BEP-510C



**Optional accessory** ▷▷▷ For detailed information please visit our website [www.bicker.de](http://www.bicker.de) and refer to the article number.

Article No.	Description
BEP-510C / FILTER B	EMV filter, EN 55022 class B for DC power supply BEP-510C



Specification is subject to change without notice. Errors excepted. Status as at: 16.03.2012