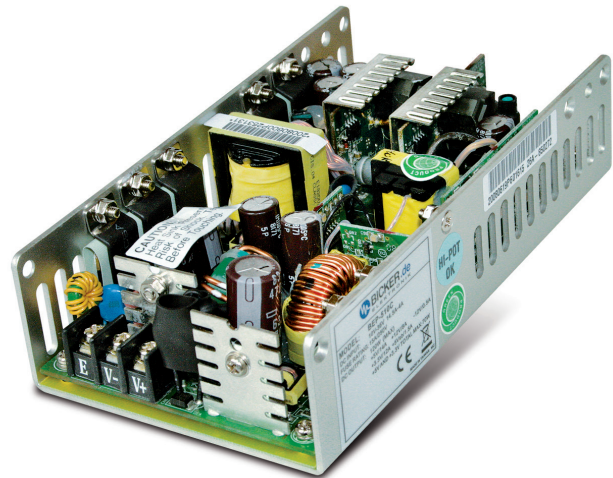


## BEP-510C

120 Watt

- ✓ Wide input range 10...36 VDC
- ✓ Designed for fanless industrial computers and industrial applications
- ✓ 100 Watt continuous fanless power!
- ✓ Operating temperature up to +70 °C
- ✓ Very robust design and construction
- ✓ High reliability due to quality components
- ✓ No minimum load required
- ✓ For connection to mains is the related model BEP-510 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 (10 VDC and full load)
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	UL 60950-1, designed according to EN 60950-1, CE
Temperature	Operating: 0...+70 °C / Storage: -20...+80 °C
Derating	From +50...+70 °C, 2.5 % / °C (for further derating data see diagram below)
MTBF	172000 h according to MIL-HDBK-217F at +50 °C
Max. operation altitude	2000 m
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 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 min	Output current max	Load regulation	Ripple & Noise
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.

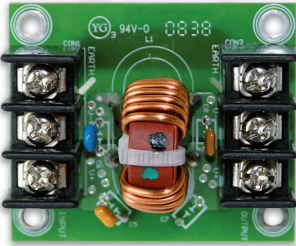
As a power component this PSU is for assembly purposes only and must not be operated in unassembled condition. The final assembly has to comply with the valid EMC and safety standards.

## Optional Accessories

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

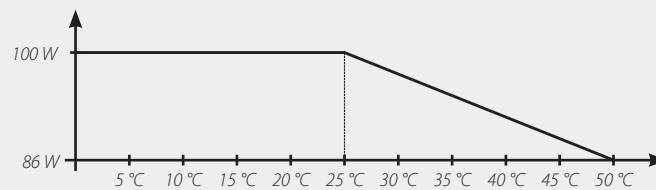
### BEP-510C / FilterB | EMC Filter

EN55022 class B for DC Power Supply  
BEP-510C

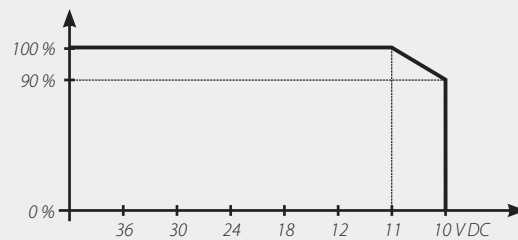


## Derating

### Fanless operation from 0...+50 °C



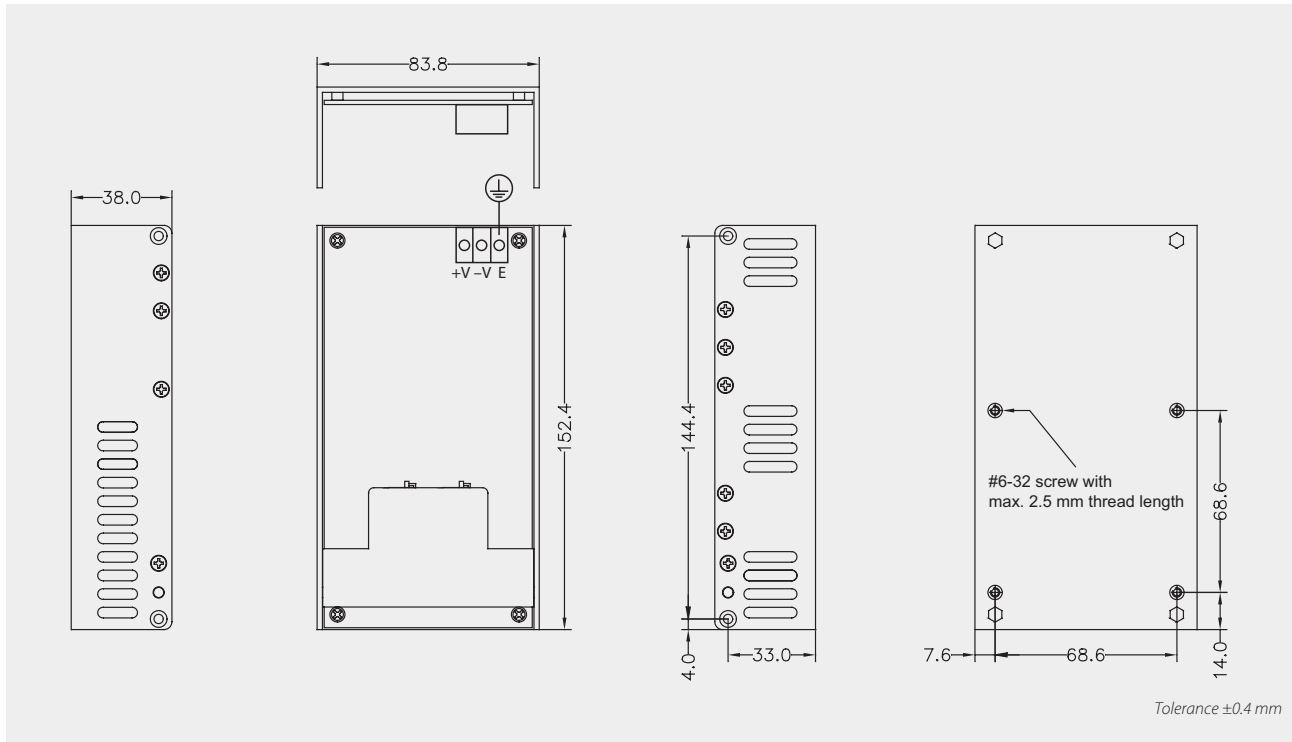
### Derating at input voltage 36...10 VDC



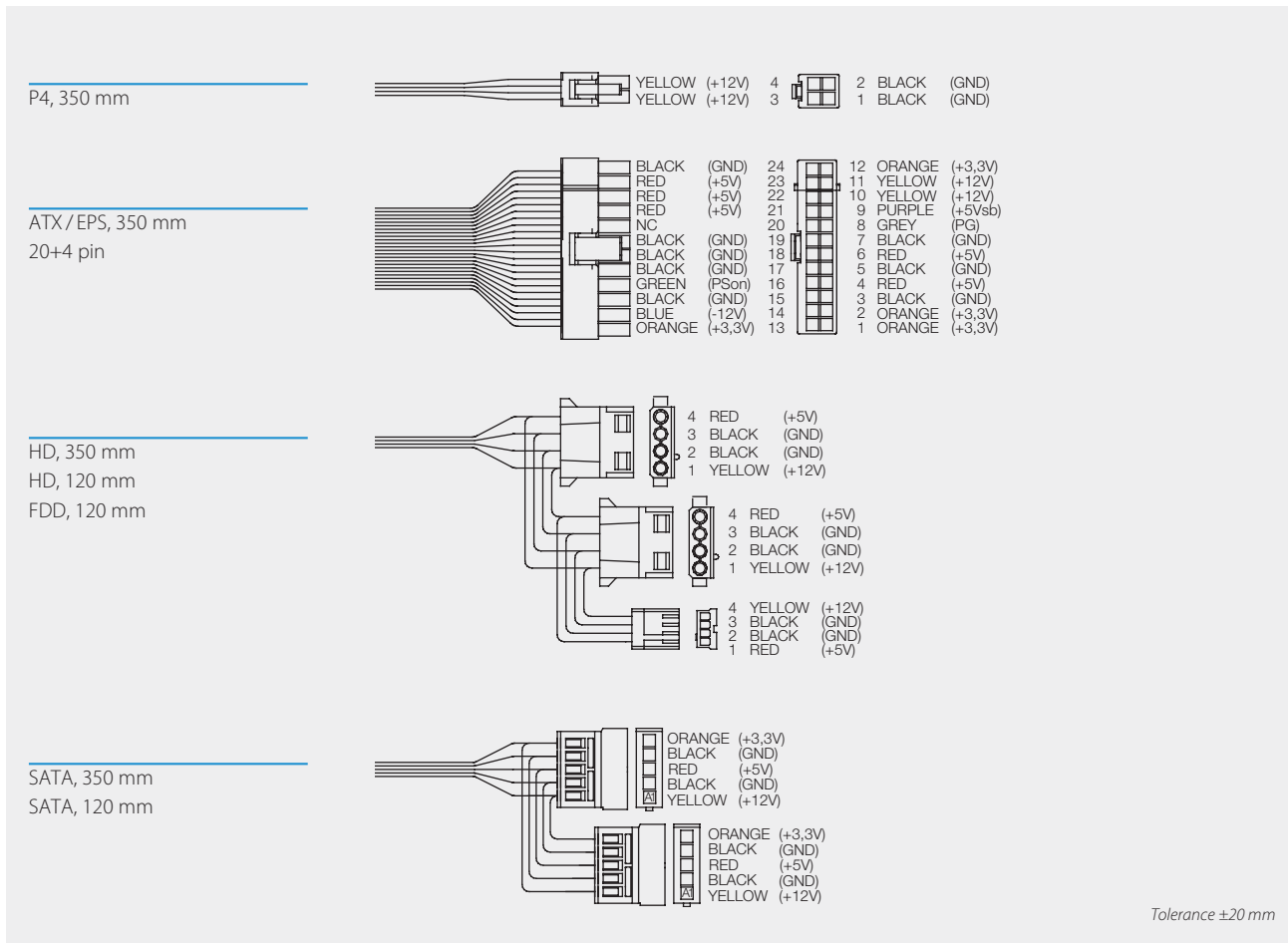
### Supplementary data for derating from +50...+70 °C

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

Drawing BEP-510C



Cable harness BEP-510C



Specification is subject to change without notice. Errors excepted. Status as at: 22.02.2017