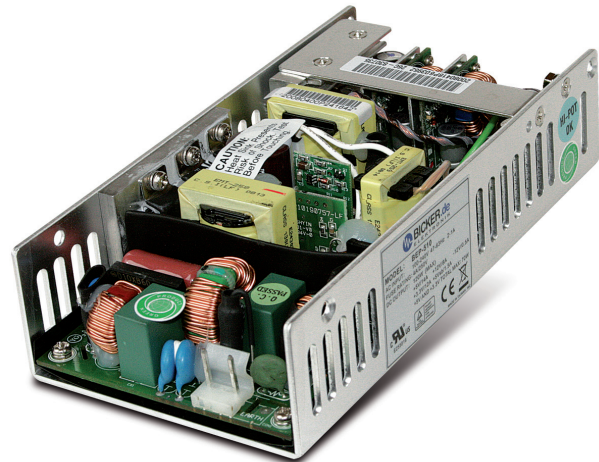


BEP-510

120 Watt

- 100 Watt continuous fanless power!
- Operating temperature up to +70 °C
- Efficiency up to 84 %

The ATX PC power supply BEP-510 is designed for the installation into fanlessly operating computers for industrial applications. Its innovative circuit design focuses on a high degree of efficiency, which is 84 % at nominal load. The DC cable harness is firmly connected to the unit. For applications with DC input the related model BEP-510C is available.



AC input

Technical data

Input voltage	90...264 V AC (130...367 V DC), active PFC
Input frequency	47...63 Hz
Input current	2 A (115 V AC) / 1 A (230 V AC)
Inrush current	30 A (115 V AC) / 70 A (230 V AC)
Efficiency	≥80 % (at max load and 115 V AC)
Hold up time	>41 ms at 115 V AC and max load
Power-Good-Signal	Switch on delay 100...550 ms, Switch off delay 1 ms
Protection	Short circuit protection: at each output, switch off Overload protection: 110...160 %, switch off Overvoltage protection: switch off, +3.3 V (3.6...4.3 V), +5 V (5.6...6.5 V), +12 V (13.2...15 V) Overtemperature protection: switch off
Earth leakage current	<3,5 mA
Safety / EMC	CE, UL 60950-1, TÜV: EN 60950-1
Operating temperature	0...+70 °C, start at -10 °C
Derating	See diagram
MTBF	202 000 h at +50 °C without fan according to MIL-HDBK-217F
Storage temperature	-20...+70 °C
Operating humidity	5...95 % RH, non-condensing
Dimensions (WxDxH)	83.8 x 165 x 40 mm ±0.4 mm
Weight (net)	0.6 kg

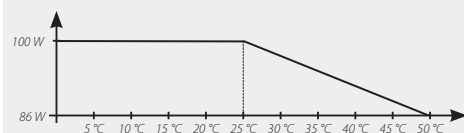
Article No.	Output voltage	Output current		Voltage regulation	Ripple & Noise
		min	max		
BEP-510	+3.3 V	0 A	12 A	±5 %	50 mV
	+5 V	0 A	14 A	±5 %	50 mV
	+12 V	0 A	8 A	±5 %	120 mV
	-12 V	0 A	0.5 A	±10 %	120 mV
	+5 V _{sb}	0 A	1.5 A	±5 %	50 mV

Output power at +3.3 V, +5 V, +12 V and -12 V is 93 W (without fan). 100 W power can be supplied without fan, and 120 W full power using a 20 CFM fan. 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.

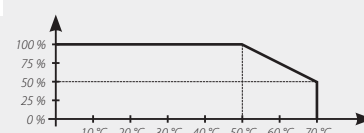
Supplementary data for derating from +50...+70 °C

- Fanless 86 W
- Load at +3.3 V / +5 V fanless (50 W)
- 120 W with 20 CFM fan
- Load at +3.3 V / +5 V with 20 CFM fan (70 W)
- Output current per channel

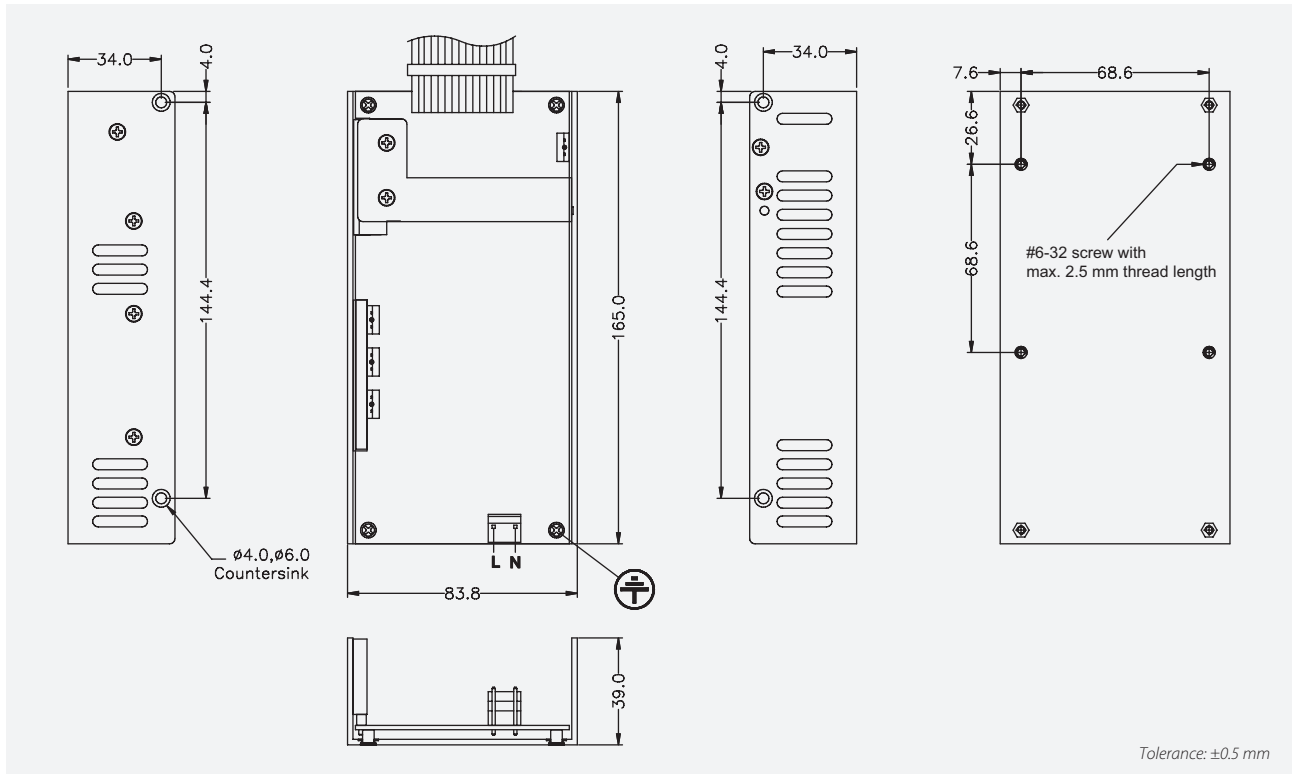
Fanless operation from 0...+50 °C



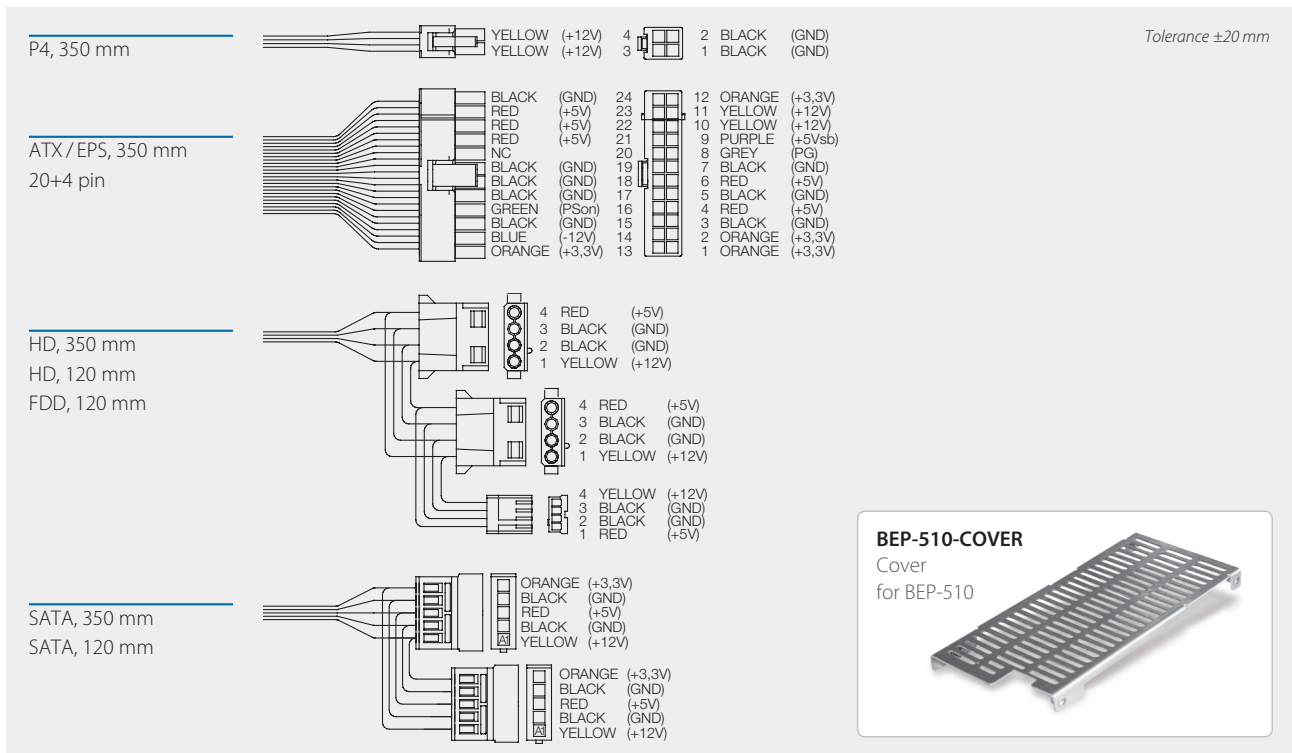
Derating from +50...+70 °C



Drawing BEP-510



Cable harness BEP-510



Optional accessory ▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.

Article No.	Description
X1-024	AC input cable 2-pole / Length: 620 mm, AWG 18 / Ends open
BEP-510-COVER	Cover for BEP-510 incl. mounting screws

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