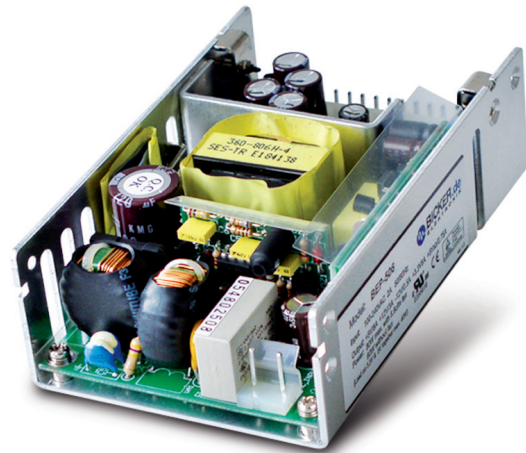


## BEP-506

80 Watt

- **60 W continuous fanless power!**
- **Operating temperature 0...+70 °C**
- **Also with DC input and for medical uses available**

By its extremely compact design the BEP-506 was especially developed for low-power ATX and ITX mainboards of Intel, AMD, and VIA. It is the ideal power supply for fanless working applications. Without active cooling the BEP-506 supplies an output power of 60 W, which can even be increased to 80 W with fan. It is designed for an ambient temperature range of 0 up to +70 °C. For easy connection an ATX cable harness is available by default. Typical uses for the BEP-506 are personal servers, POS, POI and IPCs.



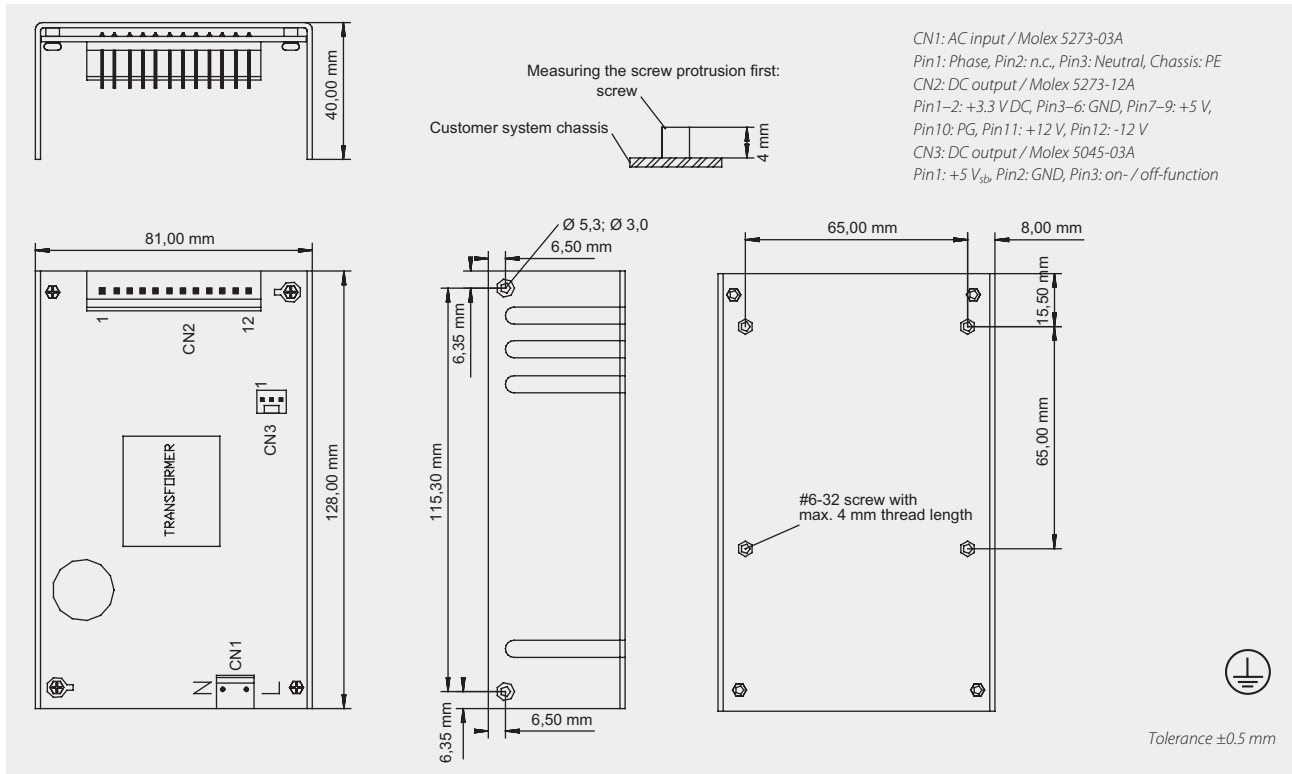
Technical data	
Input voltage	90...264 V AC, 127...373 V DC
Input frequency	47...63 Hz
Input current	2 A (115 V AC) / 1 A (230 V AC)
Inrush current	30 A (115 V AC) / 60 A (230 V AC)
Efficiency	>73 %, 230 V AC at full load
Hold up time	20 ms, 230 V AC
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Short circuit protection: at each output, auto-recovery Overload protection: 130...160 %, switch off
Earth leakage current	<3,5 mA
Safety / EMC	TÜV EN60950-1, UL60950-1, CE
Operating temperature	0...+70 °C
Derating	2.5 % / °C from +50...+70 °C
MTBF	162 000 h (60 W) at 25 °C according to MIL-HDBK-217F
Storage temperature	-20...+70 °C
Operating humidity	5...95 % RH, non-condensing
Dimensions (WxDxH)	81 x 128 x 40 mm ±0.5 mm
Weight (net)	0.25 kg

Article No.	Output voltage	Output current		Voltage regulation	Ripple & Noise
		min	max		
BEP-506	+3.3 V	0 A	6 A	±4 %	50 mV
	+5 V	1 A	8 A	±3 %	50 mV
	+12 V	0 A	3 A	±4 %	120 mV
	-12 V	0 A	0.5 A	±5 %	120 mV
	+5 V <sub>sb</sub>	0 A	0.75 A	±4 %	120 mV

Output power is 60 W without fan and 80 W with an 8.6 CFM fan (15 m<sup>3</sup>/h). Combined output load at +3.3 V and +5 V must not exceed 40 W. Under full load at both the +5 V and +3.3 output (approx. 40 W) a minimum load of +12 V / 0.2 A must be connected. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 10 µF electrolytic 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. The power supply does provide no circuit for power factor correction (PFC). Thus, according protective measures are required from a power consumption of >75 W.

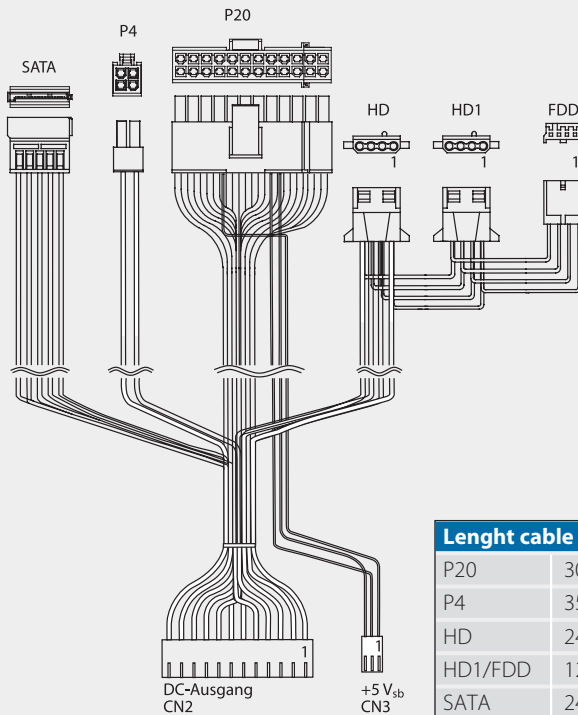
### Drawing BEP-506



**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
CB-506	ATX cable harness for BEP-506
X1-024	AC input cable harness / 2 poles / Length: 620 mm / AWG 18 / Ends open

Output: CB-506



Lenght cable harness	AWG
P20	300 mm 18
P4	350 mm 18
HD	240 mm 18
HD1/FDD	120 mm 18/22
SATA	240 mm
CN3	350 mm 22

Tolerance ±20 mm

Input: X1-024



Specification is subject to change without notice. Errors excepted. Date: 16.03.2012