

BEP-506M

80 Watt

- 60 Watt continuous fanless power!
- Operating temperature up to +70 °C
- Complies with IEC/EN60601-1 – 3rd Edition

The PC power supply BEP-506M is very compact and was designed for low power ATX and mini ITX mainboards for medical uses. As it operates without active cooling it is the ideal power supply for fanless working applications in medical equipment. The BEP-506M is approved to the EN60601-1 by TÜV and meets the requirements of UL60601-1. For easy connection cable harnesses for input and output are available.



Technical data	
Input voltage	90...264 VAC
Input frequency	47...63 Hz
Input current	2 A (115 VAC) / 1 A (230 VAC)
Inrush current	30 A (115 VAC) / 60 A (230 VAC)
Efficiency	≥75 %
Hold up time	>20 ms at 230 VAC and rated load
Power-Good-Signal	Switch on delay 100...500 ms Switch off delay 1 ms
Protection	Short circuit protection: at each output, switch off (-12 V shutdown of 3 PIN regulator) Overload protection: yes
Earth leakage current	<300 µA
Safety / EMC	TÜV (IEC/EN60601-1 3rd Edition), CE
Temperature	Operating: -10...+70 °C / Storage: -20...+70 °C
Derating	2.5 % / °C from +50...+70 °C
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...90 % RH, non-condensing
Dimensions (WxDxH)	81 x 128 x 40 mm ±0.5 mm
Weight (net)	0.3 kg

Product specific data	
Fan use	8.6 CFM, 15 m ³ /h

Article No.	Output voltage	Output current			Load regulation	Line regulation	Ripple & Noise
		min	max	rated load			
BEP-506M	+3.3 V	0 A	6 A	4 A	±4 %	±1 % at rated load with ±10 % change at input voltage	50 mV
	+5 V	1 A	8 A	4 A	±3 %		50 mV
	+12 V	0.2 A	3 A	1.5 A	±4 %		120 mV
	-12 V	0 A	0.5 A	0.3 A	±5 %		120 mV
	+5 V _{sb}	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 m³/h). Combined output power at +3.3 V and +5 V must not exceed 40 W. The +5 V output can supply up to 8 A if a minimum load of +12 V / 0.4 A is connected. The +3.3 V output can supply up to 6 A if a minimum load of +5 V / 1.2 A and +12 V / 0.1 A is connected. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 10 µF electrolytic capacitor and 0.47 µF ceramic capacitor at each output. Load regulation was done by changing the measured output load ±40 % from 60 % rated load and all other outputs kept at 60 % rated load.

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.

