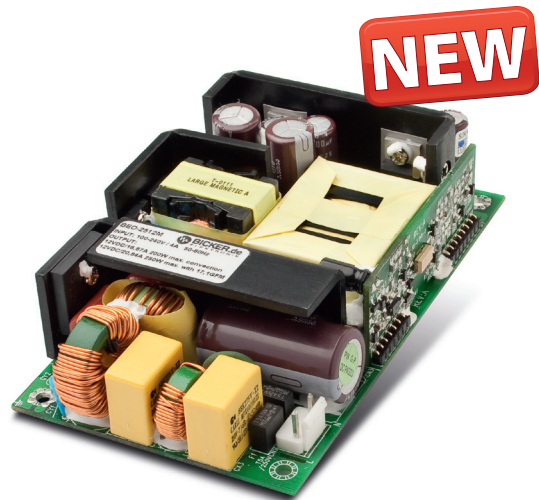


# BEO-2500M

250 Watt

- Complies with IEC/EN60601-1 – 3rd Edition
- Extremely compact
- 200 Watt continuous fanless power

The new power supply series BEO-2500M is characterized by its compact design and high efficiency of up to 85 %. Without active cooling the BEO-2500M supplies an output power of 200 Watt up to an ambient temperature of +40 °C. Thanks to the high quality of the installed parts and its excellent circuit design, high reliability and long economic life are guaranteed.



Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	4 A (115 VAC)
Inrush current	<100 A (230 VAC / 25 °C), cold start
Efficiency	App. 85 %
Standby consumption	3...6 W (115...230 VAC)
Hold up time	App. 16 ms
Protection	Short circuit protection: Switch off with auto recovery Overvoltage protection: 106...134% of rated voltage with auto recovery Overtemperature protection: 105 °C, switch off Overload protection: 105...150 %, with auto recovery
Line regulation	±1 % at nominal load and input voltage change from 90 to 264 VAC
Load regulation	±5 % (90...264 V AC, 0...+40 °C)
Earth leakage current	<300 µA max.
Safety / EMC	EN60601-1 3rd Edition, UL60601-1, CE
Operating temperature	0...+60 °C
Derating	+40...+60 °C, 2.5 % / °C
MTBF	>100 000 h according to MIL-HDBK-217F at +25 °C
Storage temperature	-10...+70 °C
Operating humidity	5...93 % RH, non-condensing
Dimensions (WxDxH)	76.2 x 127 x 35.3 mm ±1 mm
Weight (net)	0.4 kg

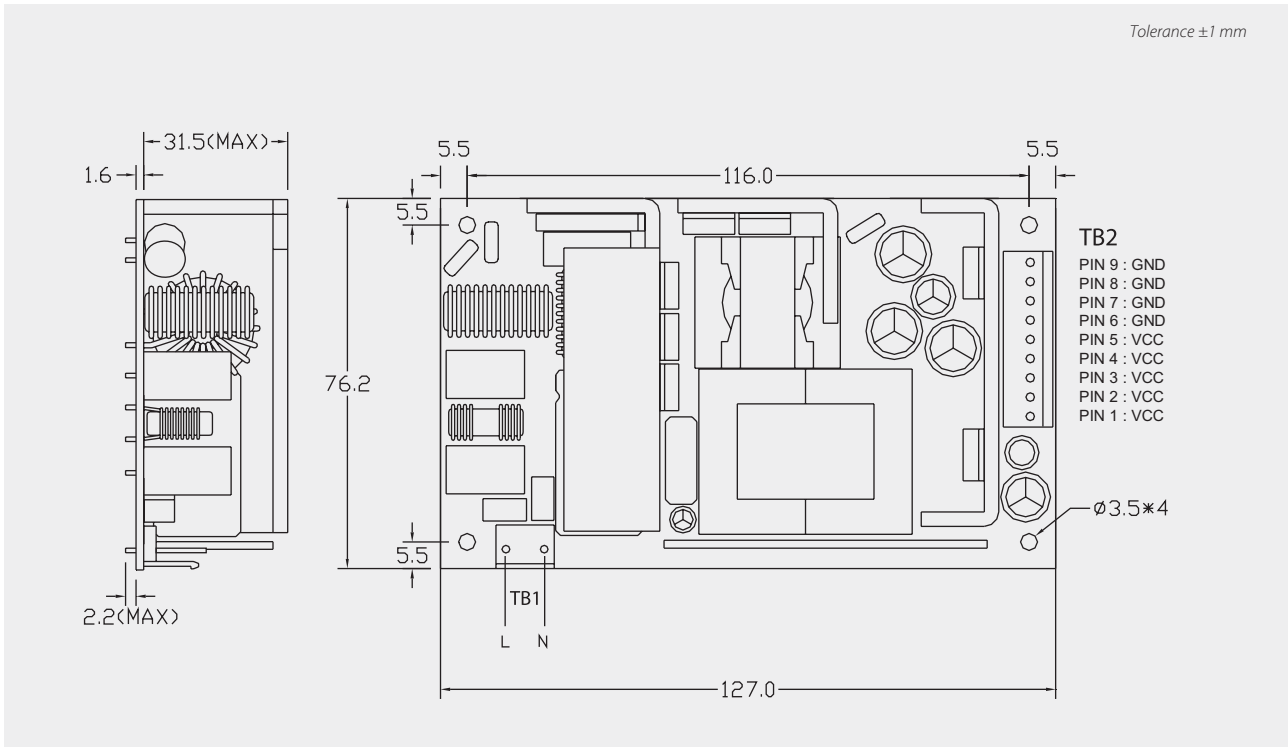
Product specific data	
Max. operation height	3048 m

Article No.	Output voltage	Output current min.	Output current max.		Ripple & Noise	Efficiency
			Convection cooling	Fan cooling		
BEO-2512M	+12 V	0 A	16.6 A	20.8 A	<120 mV <sub>SS</sub>	App. 85%
BEO-2519M	+19 V	0 A	10.5 A	13.1 A	<190 mV <sub>SS</sub>	App. 85%
BEO-2524M	+24 V	0 A	8.3 A	10.4 A	<240 mV <sub>SS</sub>	App. 85%
BEO-2548M	+48 V	0 A	4.1 A	5.2 A	<480 mV <sub>SS</sub>	App. 85%

**Additional output voltages (+28 V, +30 V, +36 V, +40 V) are available on request.**

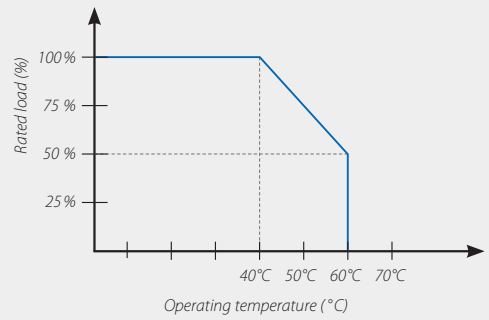
200 W continuous power without fan (0...+40 °C). For max. 250 W continuous power (0...+40 °C) a 17.1-CFM fan is needed. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 0,1 µF- and 47 µF/50V-capacitors at the output. As a power component this PSU is for assembly purposes only and must not be operated in unassembled condition. The final assembly has to comply with the valid EMC and safety standards.

## Drawing BEO-2500M



Power supplies

### ► Derating



**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
X1-054	AC input cable harness, 2-pole
CB-102-09-600	DC output cable harness, 9-pole

Specification is subject to change without notice. Errors excepted. Status as at: 07.05.2012