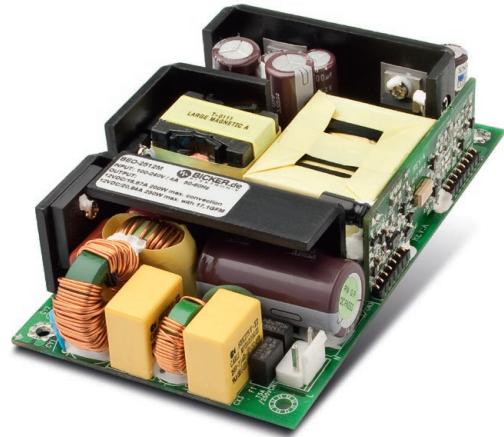


BEO-2500M

250 Watt

- ✓ Tested for industrial and medical applications
- ✓ Extremely compact
- ✓ 200 Watt continuous fanless power

The power supply series BEO-2500M is characterized by its compact design and high efficiency of up to 94 %. 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. 91...94 % depending on model (at nominal load and 230 VAC)
Standby consumption	3...6 W (115...230 VAC)
Hold up time	App. 10 ms
Protection	Short circuit protection: Switch off with auto recovery Overvoltage protection: 106...134% of rated voltage, switch off, manual input voltage reset necessary Overtemperature protection: 105 °C, switch off Overload protection: 105...150 %, with auto recovery
Insulation voltage	Input/Output 5656 VDC (2xMOPP) Input/FG 2121 VDC (1xMOPP)
Insulation resistance	Input/Output and Input/FG ≥ 20 M Ω at 500 VDC test voltage
Line regulation	± 1 % at nominal load and input voltage change from 90 to 264 VAC
Load regulation	± 5 % (90...264 VAC, 0...+40 °C)
Earth leakage current	<220 μ A max. (264 VAC / 60 Hz)
Safety / EMC	CE, CSA 60601-1 (3rd Edition), IEC60601-1:2005 (3rd Edition), EN60601-1:2006+A1:2013 (Edition 3.1), ANSI/AAMI ES60601-1:2005 (3rd Edition)
Temperature	Operating: 0...+60 °C / Storage: -20...+85 °C
Derating	+40...+60 °C, 2.5 % / °C (see diagram)
Max. operating altitude	3048 m
MTBF	>100 000 h according to MIL-HDBK-217F at +25 °C
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...90 % RH, non-condensing
Dimensions (WxDxH)	76.2 x 127 x 35.3 mm ± 1 mm
Weight (net)	0.4 kg


Article No.	Output voltage	Output current min.	Output current max. Convection cooling	Fan cooling	Ripple & Noise	Efficiency
BEO-2512M	+12 V	0 A	16.6 A	20.8 A	<120 mV _{SS}	App. 91%
BEO-2519M	+19 V	0 A	10.5 A	13.1 A	<190 mV _{SS}	App. 91%
BEO-2524M	+24 V	0 A	8.3 A	10.4 A	<240 mV _{SS}	App. 93%
BEO-2528M	+28 V	0 A	7.1 A	8.9 A	<280 mV _{SS}	App. 92%
BEO-2530M	+30 V	0 A	6.6 A	8.3 A	<300 mV _{SS}	App. 93%
BEO-2536M	+36 V	0 A	5.5 A	6.9 A	<360 mV _{SS}	App. 93%
BEO-2548M	+48 V	0 A	4.1 A	5.2 A	<480 mV _{SS}	App. 94%

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. To get the optimum EMC performance, the grounding terminal has to be connected to the chassis. 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 and refer to the article number.


CB-105-3-600 | AC input cable
3-pole, length 600 mm, AWG18, ends open



CB-102-09-600 | DC output cable
9-pole, length 600mm, AWG 18, ends open



X1-054 | AC input cable
2-pole, length 600 mm, AWG18, ends open



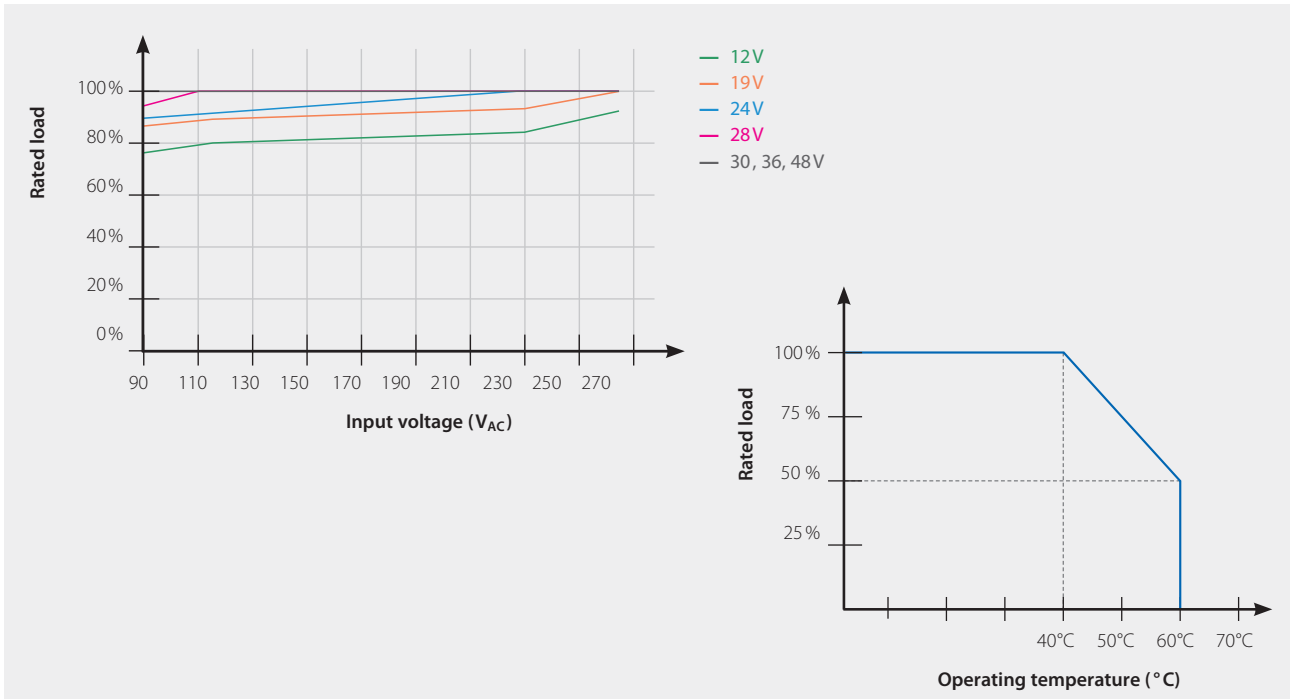
PSZ-1019-B1 | EMC-Filter
IEC connector filter incl. cable and ferrite



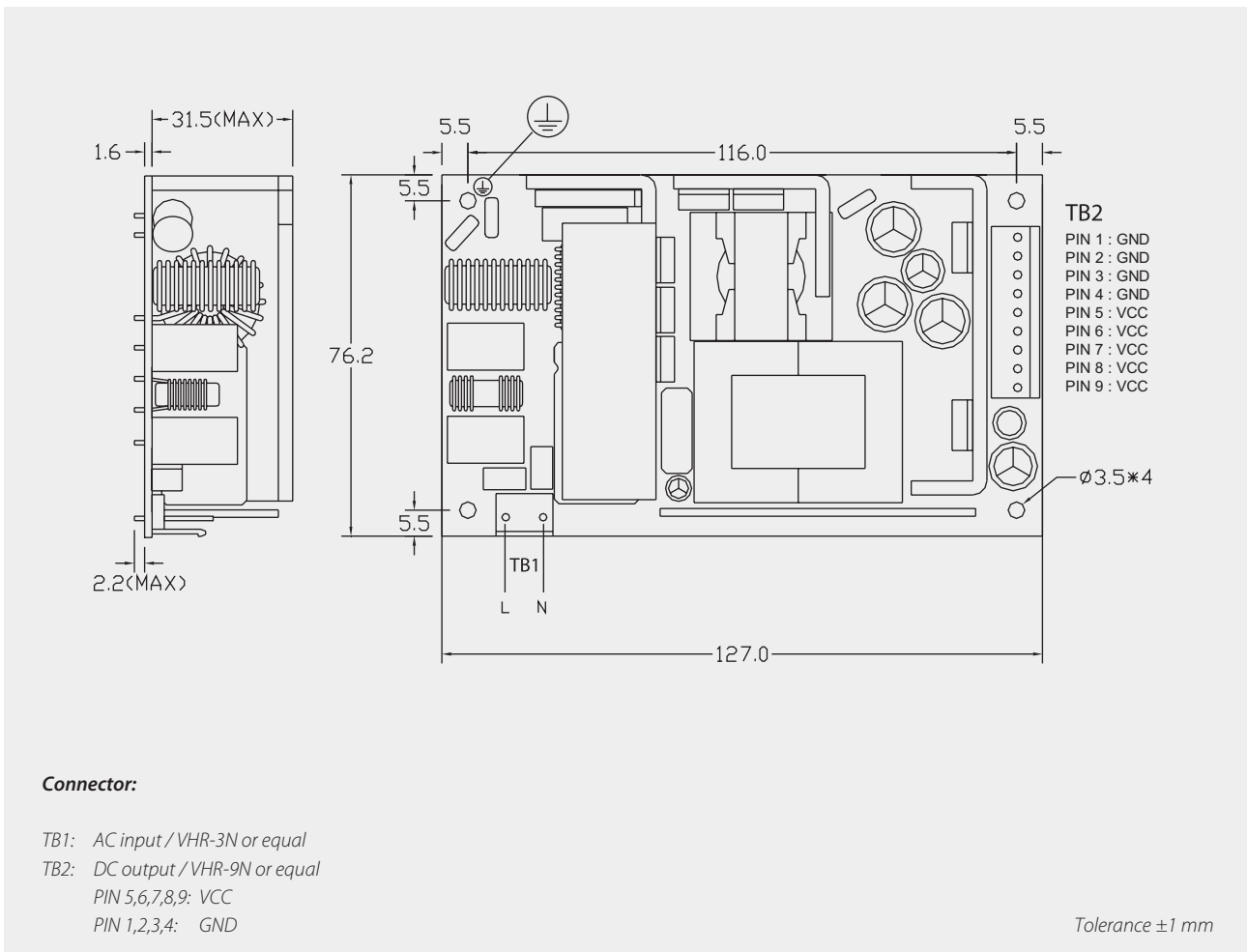
PSZ-1009 | Male adapter
DCplug: 2.5 x 5.5 mm, AWG 26-12



Derating input voltage range and temperature range



Drawing BEO-2500M



Specification is subject to change without notice. Errors excepted. Status as at: 30.12.2020