

BEO-1000M

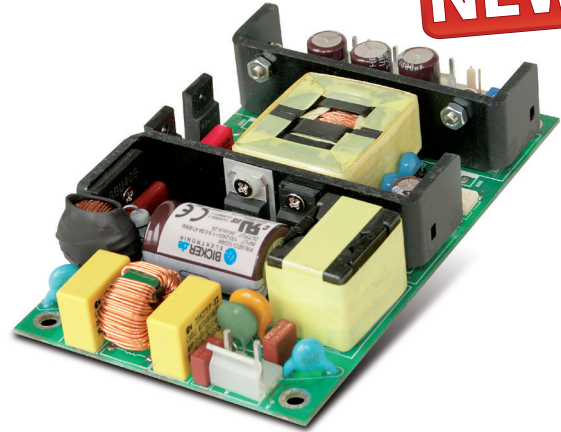
100 Watt

- Tested for industrial and medical applications
- Extremely slim, installation height only 26.7 mm!
- 100 Watt continuous fanless power

The power supply series BEO-1000M is characterized by its high efficiency of up to 91 % and a very low standby uptake rate of <0.5 watts. It delivers its full power of 100 watts up to an ambient temperature of +50 °C without active cooling. Thanks to the high quality of the installed parts and its excellent circuit design, high reliability and long economic life are guaranteed. The BEO-1000M series is tested for medical and industrial applications.



NEW



Industry

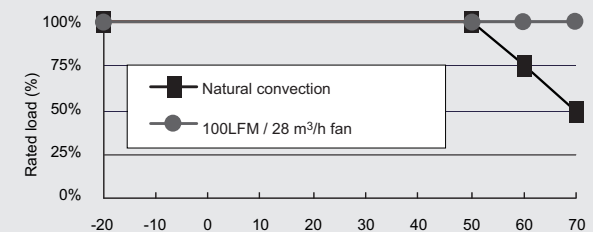
Technical data

Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	1.5 A (100 V AC) / 0.5 A (240 V AC)
Inrush current	<80 A (240 V AC)
Efficiency	83...91 % depending on model
Standby consumption	<0.5 W at 0 A load
Hold up time	App. 16 ms
Protection	Short circuit protection: Switch off with auto recovery Overvoltage protection: Switch off
Line regulation	±0.5 % at nominal load and input voltage change from 90 to 264 V AC
Load regulation	±1 % (A1, load step from 100 % to 10 %)
Earth leakage current	<300 µA max.
Safety / EMC	TÜV (IEC/EN60601-1 3rd Edition), UL (UL60601-1) TÜV (IEC/EN60950-1), UL (UL60950-1), CE
Operating temperature	-20...+70 °C
Derating	+50...+70 °C, 2.5 % / °C (fanless)
MTBF	200 000 h according to MIL-HDBK-217F at +25 °C
Storage temperature	-20...+85 °C
Operating humidity	5...93 % RH, non-condensing
Dimensions (WxDxH)	76.2 x 127 x 26.7 mm ±1 mm
Weight (net)	0.27 kg

Product specific data

Remote sense	Control range 0.5 V
Max. operation height	2000 m
Adjustment range / VR	±5 %

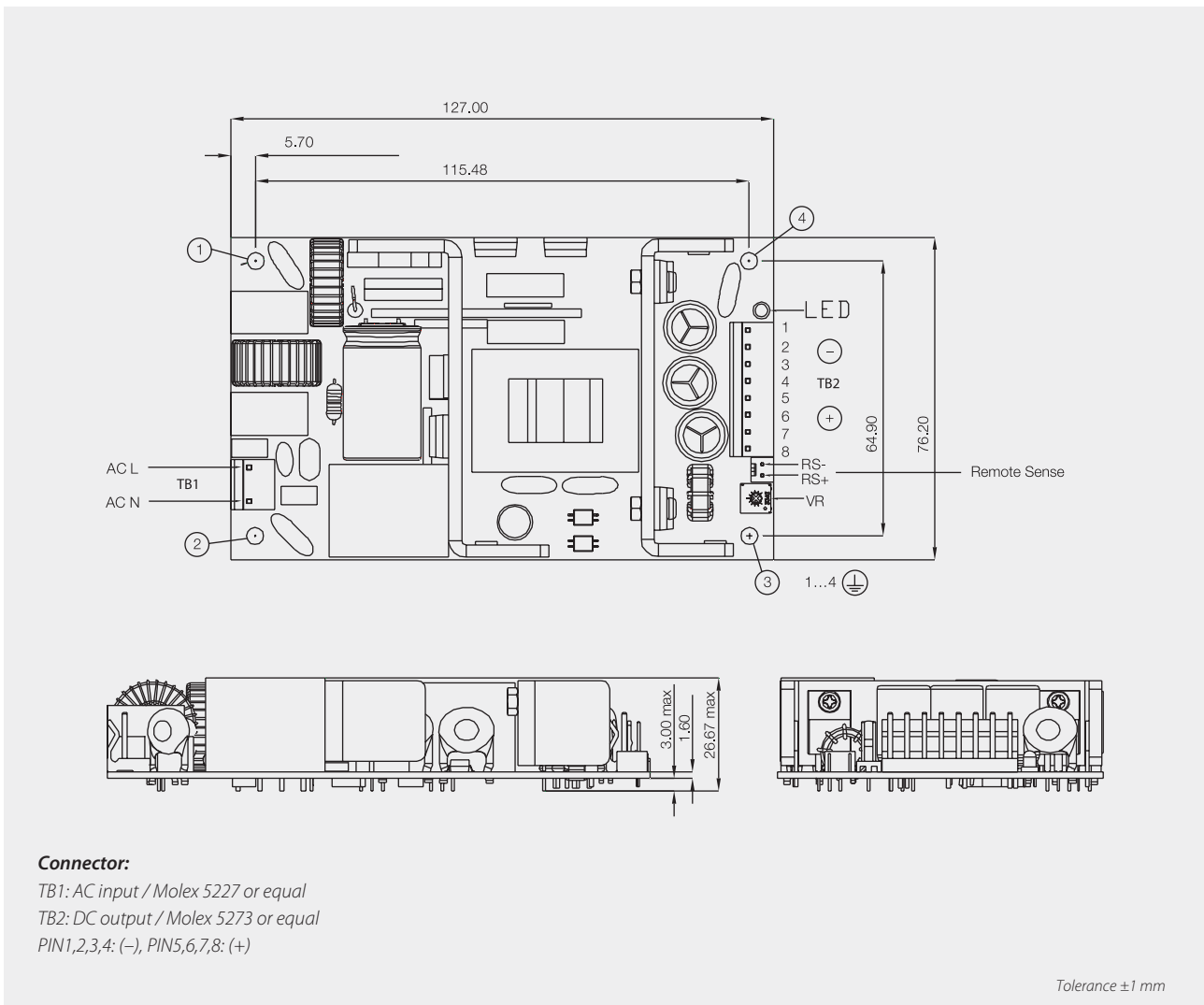
Derating



Article No.	Output voltage	Output current min	Output current max load	Ripple & Noise	Efficiency
BEO-1005M	+5 V	0 A	20 A	<100 mV _{SS}	83 %
BEO-1007M	+7.5 V	0 A	13.4 A	<150 mV _{SS}	87 %
BEO-1009M	+9 V	0 A	11.2 A	<90 mV _{SS}	88 %
BEO-1012M	+12 V	0 A	8.4 A	<120 mV _{SS}	89 %
BEO-1015M	+15 V	0 A	6.7 A	<150 mV _{SS}	89 %
BEO-1018M	+18 V	0 A	5.6 A	<180 mV _{SS}	90 %
BEO-1024M	+24 V	0 A	4.2 A	<240 mV _{SS}	91 %
BEO-1028M	+28 V	0 A	3.6 A	<280 mV _{SS}	91 %
BEO-1036M	+36 V	0 A	2.8 A	<360 mV _{SS}	91 %
BEO-1048M	+48 V	0 A	2.1 A	<480 mV _{SS}	91 %

100 W continuous power without fan (-20...+50 °C), from +50...+70 °C a 100 LFM/28 m³/h fan is needed. Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 100 nF and 220 µF 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-1000M



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 harness, 2-pole
X1-061	AC input cable harness, 3-pole
CB-BEO-1000M	DC output cable harness, 8-pole