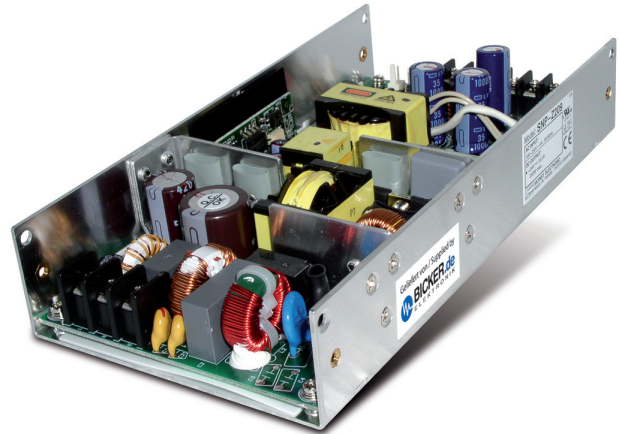


## SNP-Z20M series

200 Watt

- 200 Watt continuous **fanless** power
- High efficiency up to 87 %
- Medical approval

The SNP-Z20M power supply series is distinguished by its very high efficiency ranging from 85 %. Thus, it can supply 200 W continuous fanless power up to an operating ambient temperature of +50 °C. The complete operating ambient temperature range even extends from 0 °C to +70 °C. By its high-grade components as well as by its overload, short circuit and overvoltage protection the SNP-Z20 series reaches its high MTBF of over 300 000 h.



### Technical data

Input voltage	85...264 VAC, active PFC
Input frequency	47...63 Hz
Input current	4 A (115 VAC) / 2 A (230 VAC)
Inrush current	<30 A (115 VAC), <60 A (230 VAC), +25 °C
Efficiency	>85 %
Hold up time	App. 20 ms / 115 VAC
Protection	Short circuit protection: Switch off with auto-recovery Overload protection: Switch off with auto-recovery Overvoltage protection: SNP-Z207M (13.1 V...15.1 V), SNP-Z209M (26 V...31 V) Overtemperature protection: yes
Line regulation	±1 % at rated load and input voltage change of ±10 %
Load regulation	±1 % (A1 Load step ±40 % related to 60 % load, 230 VAC)
Earth leakage current	<300 µA (240 VAC)
Safety / EMC	TÜV, UL, CB, CE, IEC 60601-1, EN 60601-1
Operating temperature	0...+70 °C
Derating	In the range of +50...+70°C, 2.5 % / °C
MTBF	App. 300 000 h according to MIL-HDBK-217F at +25 °C
Storage temperature	-20...+85°C
Operating humidity	10...90 % RH, non-condensing
Dimensions	203.2 x 106.7 x 38.1 mm ±0,5 mm
Weight (net)	0.6 kg

### Product specific data

Remote sense	Regulation range 0.5 V, at TB5
Max. capacitive load	2000 µF / SNP-Z209M, 6000 µF / SNP-Z207M
Convection-cooled	200 W
Fan-cooled	250 W: 18CFM (31 m³/h)

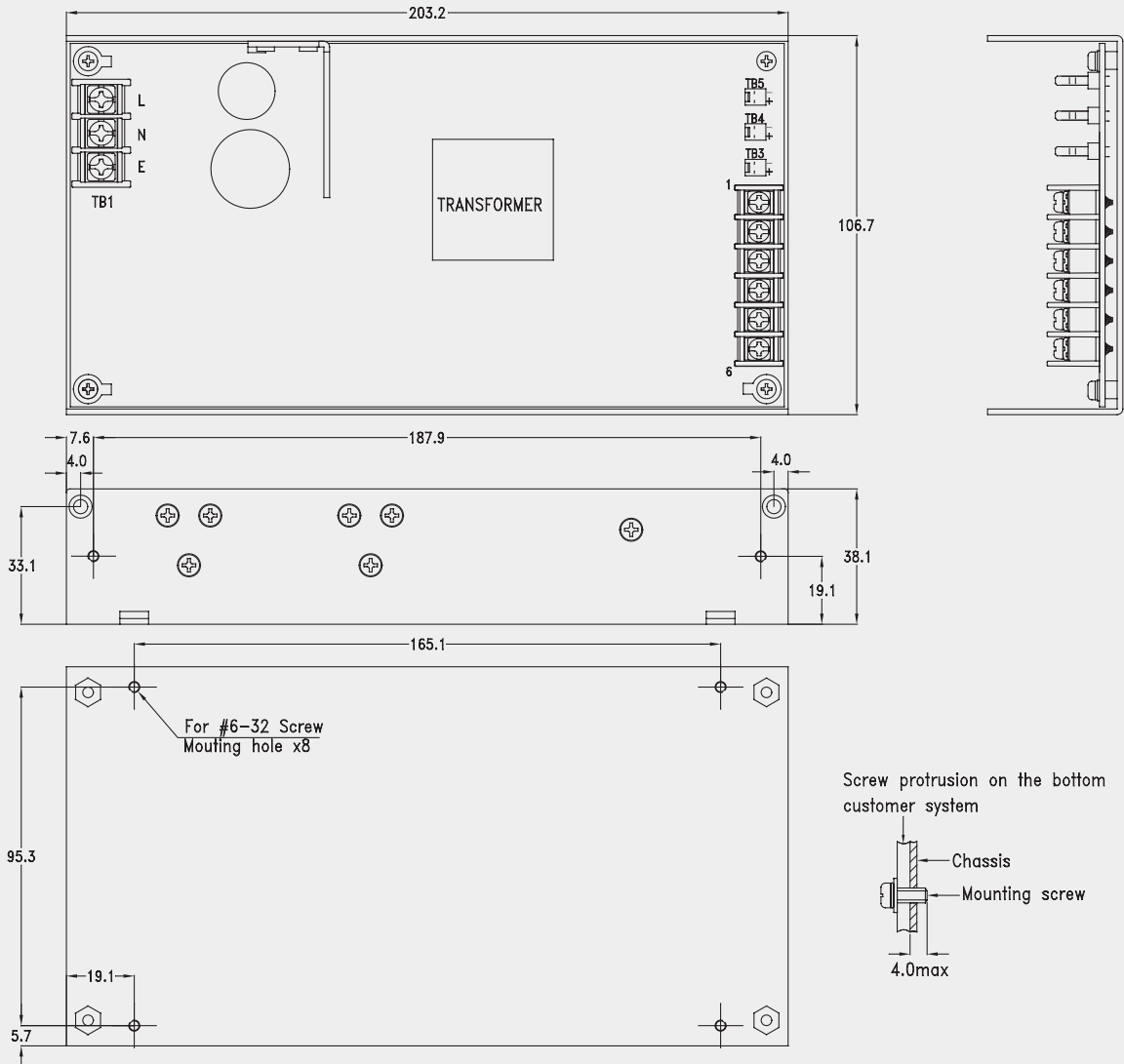
Article No.	Output	Output voltage	Output current			Ripple & Noise
			min	Rated load	max load	
SNP-Z207M	A1	+12 V	0 A	17 A	21 A	<100 mV <sub>SS</sub>
SNP-Z209M	A1	+24 V	0 A	8.5 A	10.5 A	<100 mV <sub>SS</sub>

Ripple and noise was measured by a 15 MHz bandwidth limited oscilloscope with connected 0.47 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.

# Drawing SNP-Z20M series

Tolerances:  
 Mounting points:  $\pm 0.5$  mm,  
 all other dimensions  $\pm 0.8$  mm



Connectors:  
 TB1: AC input / clamping screw, TB2: DC output / clamping screw, TB3: 12 V fan /  
 TB4: LED / TB5: Remote Sense Molex 5045-02A  
 TB2: PIN1,2,3: +12 V / PIN4,5,6: GND

Power supplies

Specification is subject to change without notice. Errors excepted. Status as at: 22.08.2011