

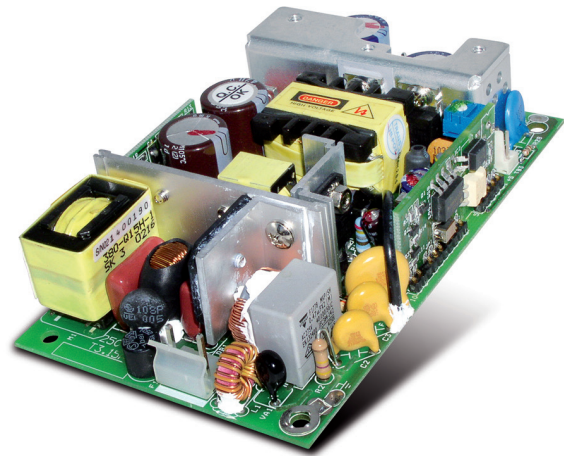
# SNP-Z10M series

130 Watt

- ✓ 100 Watt continuous fanless power
- ✓ High efficiency up to 85 %
- ✓ Overload, short circuit and overvoltage protection

The SNP-Z10M power supply series has been tested and approved for medical applications. By its high efficiency ranging from 80 to 85 % fanless and, thus, very quiet operation is made possible. The SNP-Z10M series is made up of high-grade components and provides overload, short circuit and overvoltage protection.

Optionally, AC and DC cable harnesses as well as a casing are available for all models.



Technical data	
Input voltage	90...264 V AC, 130...370 V DC, active PFC
Input frequency	47...63 Hz
Input current	2.6 A / 115 V AC, 1.3 A / 230 V AC
Inrush current	<30 A / 115 V AC, <60 A / 230 V AC
Efficiency	80...85 %, depending on model
Hold up time	App. 20 ms / 115 V AC and 100 Watt
Protection	Short circuit protection: Switch off with auto-recovery Overload protection: Switch off with auto-recovery Overvoltage protection: Switch off (model / response threshold) SNP-Z101M, -Z104M, -Z106M / (5.7 V...7 V), SNP-Z107M / (13.1 V...15.1 V), SNP-Z108M / (16.6 V...20.1 V), SNP-Z109M / (26.2 V...31 V), SNP-Z10TM / (55 V...62 V), SNP-Z10HM / (30 V...34 V)
Line regulation	±0.5 % at rated load and input voltage change from 90 to 264 V AC
Load regulation	±1 % (A1, load step ±40 % related to 60 % load, without fan) ±5 % (A2-A3, at 60 % load)
Earth leakage current	<300 µA max. (240 V AC / 60 Hz)
Operating temperature	0...+50 °C / 100 W with convection, SNP-Z106M: 0...+40 °C / 100 W
Derating	+50...+70 °C / 2.5 % / K, SNP-Z106M: +40...+70 °C / 2.5 % / K
Storage temperature	-20...+85 °C
Operating humidity	5...95% RH, non-condensing
Dimensions	127 x 76.2 x 32.4 mm ±0.5 mm / SNP-Z106M, -Z107M, -Z109M, -Z10HM 127 x 76.2 x 34.4 mm ±0.5 mm / SNP-Z101M, -Z104M, -Z108M, -Z10TM
Weight (net)	0.3 kg

Product specific data	
Remote sense	Regulation range 0.5 V (except SNP-Z101M, SNP-Z104M)

### Optional accessories

Article No.	Description
CB-Z10A	DC cable harness, 8-pole (SNP-Z10B, SNP-Z106, SNP-Z106M)
CB-Z10B	DC cable harness, 6-pole (SNP-Z107/-Z107M, SNP-Z108/-Z108M, SNP-Z109/-Z109M, SNP-Z10T/-Z10T-M)
CB-Z10C	DC cable harness, 9-pole (SNP-Z10D, SNP-Z101/-Z101M, SNP-Z104M)
X1-024	AC cable harness, 2-pole (SNP-Z10 series)
SNP-Z10-CHASSIS	Chassis for SNP-Z07, -10 and -10M series
SNP-Z10-COVER	Cover for SNP-Z07, -10 and -10M series

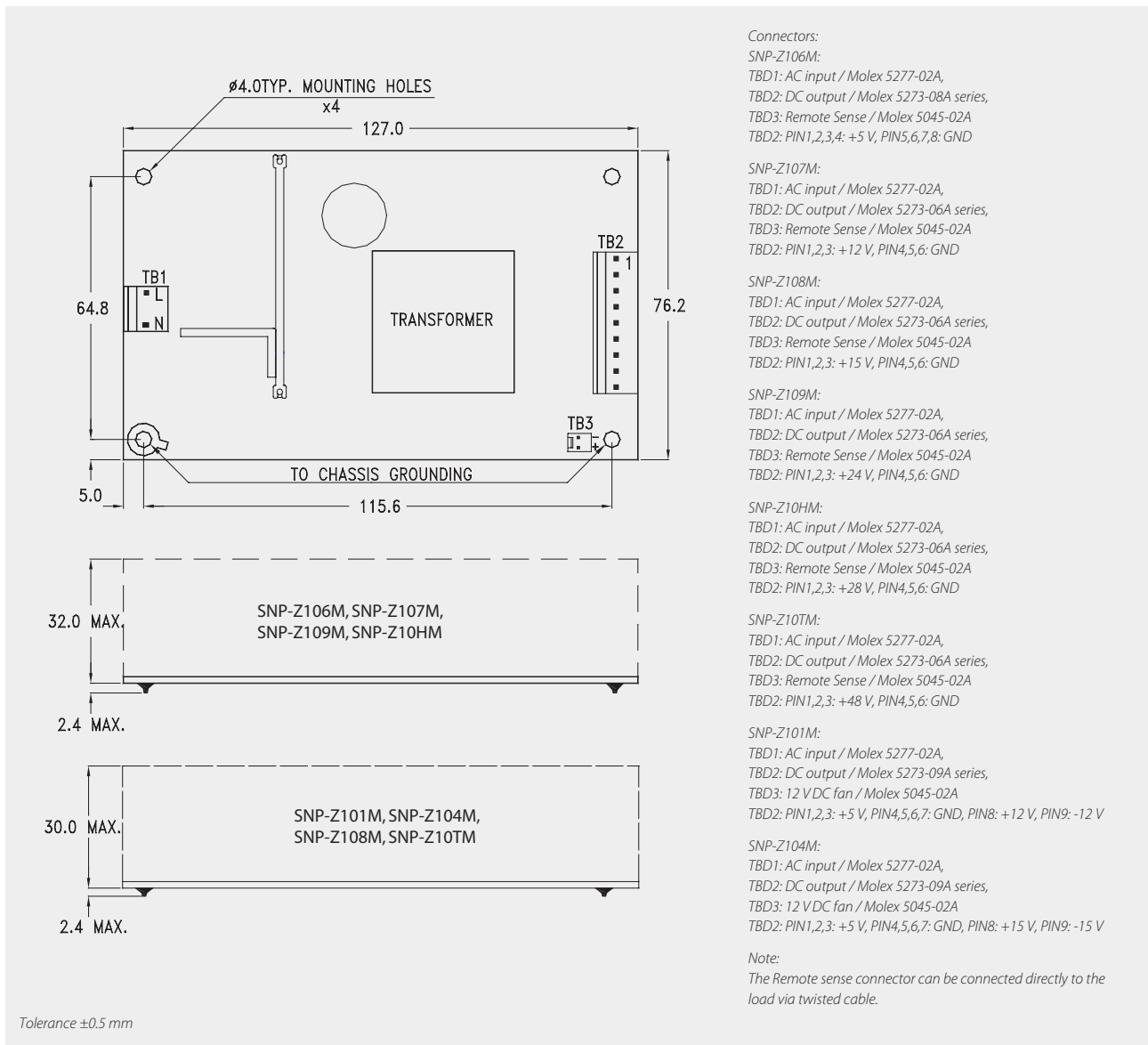
Article No.	Output	Output voltage	Output current			Ripple & Noise
			min	rated load	max load	
SNP-Z106M	A1	+5 V	0 A	20 A	26 A	<50 mV <sub>SS</sub>
SNP-Z107M	A1	+12 V	0 A	9 A	11 A	<100 mV <sub>SS</sub>
SNP-Z108M	A1	+15 V	0 A	7 A	8.7 A	<100 mV <sub>SS</sub>
SNP-Z109M	A1	+24 V	0 A	4.5 A	5.4 A	<100 mV <sub>SS</sub>
SNP-Z10HM	A1	+28 V	0 A	3.8 A	4.65 A	<100 mV <sub>SS</sub>
SNP-Z10TM	A1	+48 V	0 A	2.1 A	2.7 A	<150 mV <sub>SS</sub>
SNP-Z101M	A1	+5 V	0.5 A	11.5 A	15 A	<50 mV <sub>SS</sub>
	A2	+12 V	0.3 A	3 A	4.1 A	<120 mV <sub>SS</sub>
	A3	-12 V	0 A	0.8 A	1.1 A	<120 mV <sub>SS</sub>
SNP-Z104M	A1	+5 V	0.5 A	10 A	15 A	<50 mV <sub>SS</sub>
	A2	+15 V	0.3 A	2.5 A	4.1 A	<150 mV <sub>SS</sub>
	A3	-15 V	0 A	0.8 A	1.1 A	<150 mV <sub>SS</sub>

100 W continuous power without fan (SNP-Z106M 100 W / +40 °C, 80 W / +50 °C).

For fan cooling at 130 W output power an 18CFM (30 m<sup>3</sup> / h) fan is required, at 120 W a 10CFM (17 m<sup>3</sup> / h) fan is required. Ripple and noise was measured by a 15 MHz bandwidth limited oscilloscope with connected 47 µF electrolytic and 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-Z10M series



Specification is subject to change without notice. Errors excepted. Status as at: 20.03.2019