

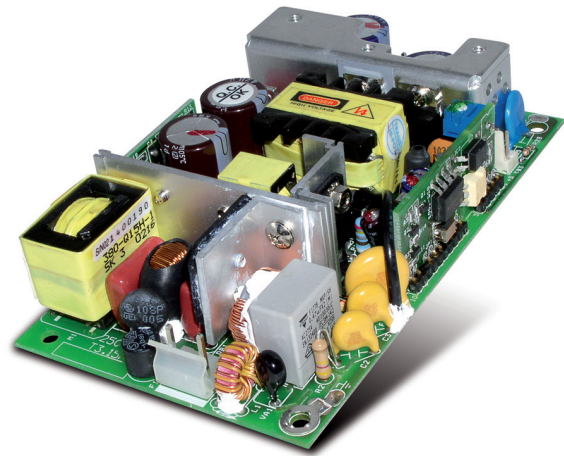
SNP-Z10M series

130 Watt

- 100 Watt continuous fanless power
- High efficiency up to 85 %
- EN60601-1 and UL60601-1 certified

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 VAC, 130...370 VDC, active PFC
Input frequency	47...63 Hz
Input current	2.6 A / 115 VAC, 1.3 A / 230 VAC
Inrush current	<30 A / 115 VAC, <60 A / 230 VAC
Efficiency	80...85 %, depending on model
Hold up time	App. 20 ms / 115 VAC 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 VAC
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 VAC / 60 Hz)
Safety / EMC	TÜV (EN60601-1), UL (UL60601-1), CE
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)
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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-Q24	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

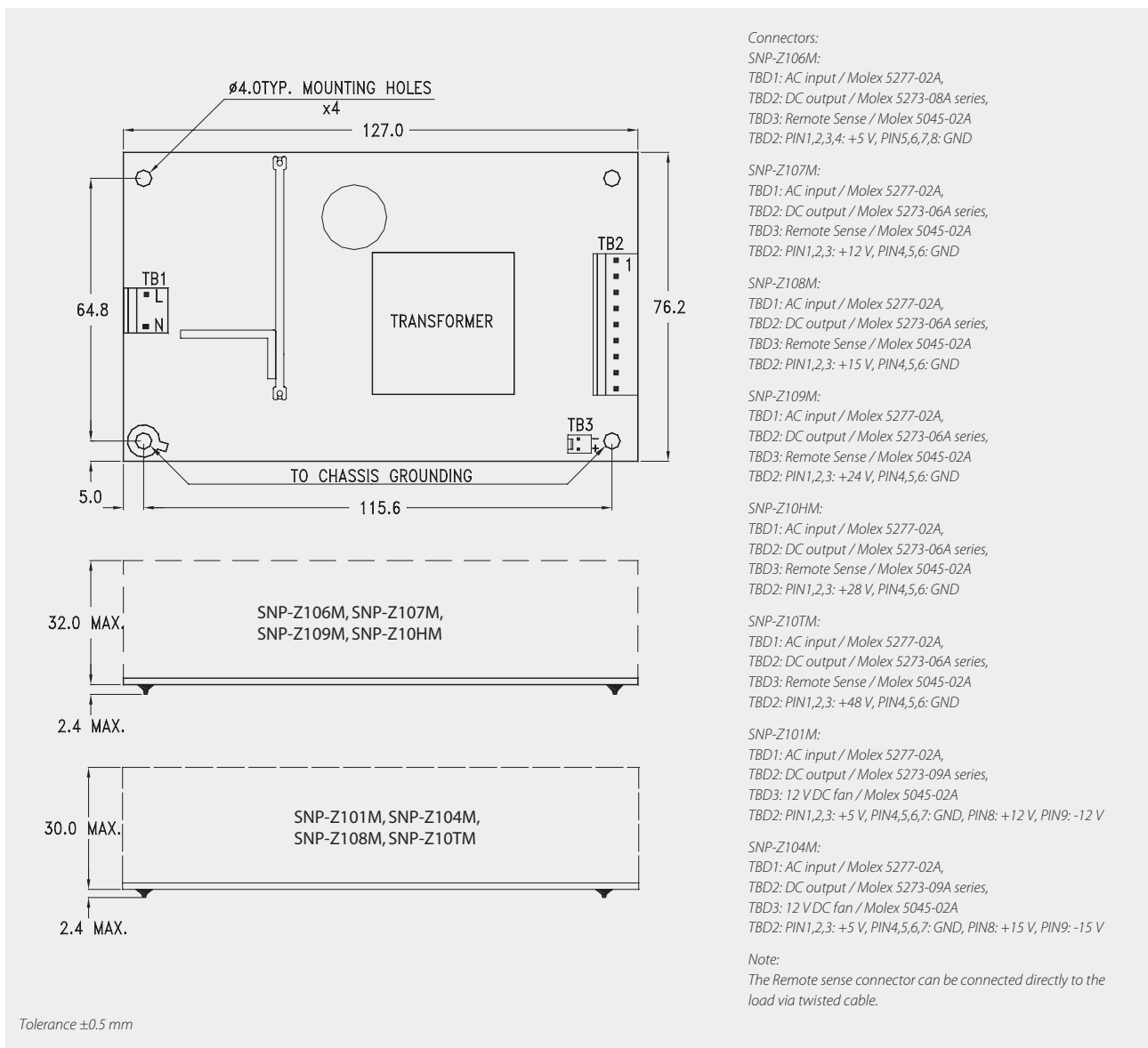
Article No.	Output	Output voltage	Output current			Ripple & Noise
			min	rated load	max load	
SNP-Z106M	A1	+5 V	0 A	20 A	26 A	<50 mV _{SS}
SNP-Z107M	A1	+12 V	0 A	9 A	11 A	<100 mV _{SS}
SNP-Z108M	A1	+15 V	0 A	7 A	8.7 A	<100 mV _{SS}
SNP-Z109M	A1	+24 V	0 A	4.5 A	5.4 A	<100 mV _{SS}
SNP-Z10HM	A1	+28 V	0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

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 m³ / h) fan is required, at 120 W a 10CFM (17 m³ / 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



Power supplies

Specification is subject to change without notice. Errors excepted. Status as at: 13.01.2010