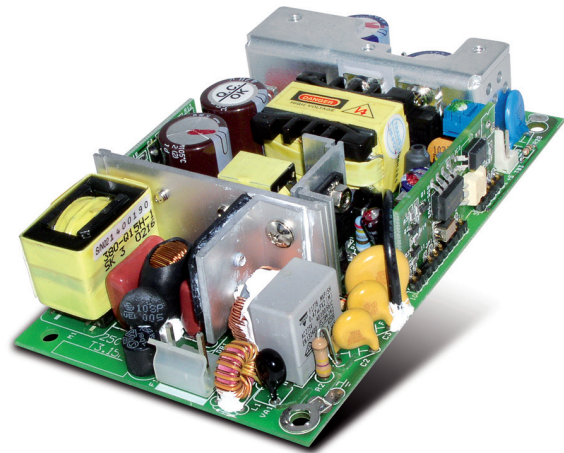


SNP-Z10 series

100–130 Watt

- 100 Watt continuous fanless power
- High efficiency up to 88 %
- MTBF up to 254 000 h at +50 °C

The SNP-Z10 power supply series is distinguished by its very high efficiency ranging from 80 to 88 % resulting in an operating ambient temperature range from 0 °C to +70 °C. By its high-grade components as well as by its overload, short circuit and overvoltage protection the series reaches an MTBF of up to 254 000 h. Optionally, casings and connector cables are available for all models.



Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	2 A (115 V AC), 1A (230 V AC)
Inrush current	<30 A (115 V AC), <60 A (230 V AC)
Efficiency	80...88 %, depending on model
Hold up time	SNP-Z106, -Z107, -Z109, app. 16 ms (115 V AC) SNP-Z10T, -Z101, app. 20 ms (115 V AC)
Protection	Short circuit protection: Switch off with auto-recovery Overload protection: Switch off with auto-recovery Overvoltage protection: Switch off (model / response threshold) SNP-Z106, -Z101 / (5.7 V...7 V), SNP-Z107 / (13.1 V...15.1 V), SNP-Z109 / (26.2 V...31 V), SNP-Z10T / (55 V...62 V), SNP-Z10B / (3.5 V...4.5 V)
Line regulation	±0.5 % at rated load and input voltage change of ±10 %
Load regulation	±1 % (A1, load step ±40 % related to 60 % rated load) ±3 % (A1, load step ±40 % related to 60 % rated load) / SNP-Z101 ±5 % (A2-A3, at 60 % rated load)
Safety / EMC	TÜV, UL, CE
Operating temperature	0...+50 °C
Storage temperature	-40...+85 °C
Operating humidity	5...95 % RH, non-condensing
Dimensions (WxDxH)	76.2 x 127 x 32.4 mm ±0.5 mm / SNP-Z106, -Z107, -Z108, -Z109, -Z10T, -Z10B 76.2 x 127 x 34.4 mm ±0.5 mm / SNP-Z101, -Z10D
Weight (net)	0.3 kg

Product specific data	
Remote sense	Regulation range 0.5 V (except SNP-Z101, SNP-Z10D)

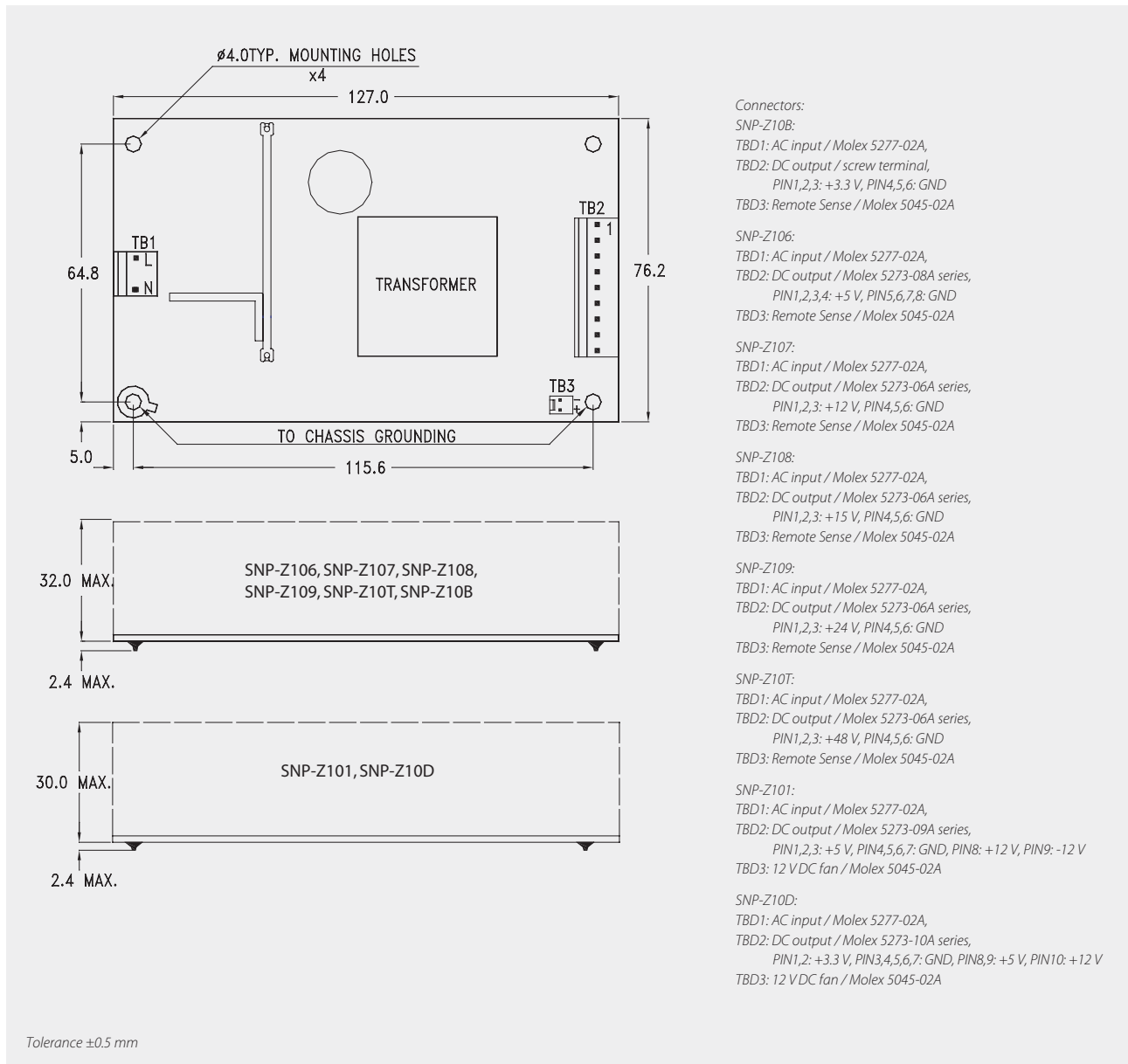
Optional accessories

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		Convection-cooled	Max Load	Fan-cooled	Ripple & Noise
			min	Rated load				
SNP-Z10B	A1	+3.3 V	0 A	25 A	83 W	30 A	100 W	<50 mV _{SS}
SNP-Z106	A1	+5 V	0 A	20 A	100 W	24 A	120 W	<50 mV _{SS}
SNP-Z107	A1	+12 V	0 A	9 A	108 W	10.8 A	130 W	<120 mV _{SS}
SNP-Z108	A1	+15 V	0 A	7 A	105 W	8.7 A	130 W	<120 mV _{SS}
SNP-Z109	A1	+24 V	0 A	4.5 A	108 W	5.4 A	130 W	<240 mV _{SS}
SNP-Z10T	A1	+48 V	0 A	2.3 A	110 W	2.7 A	130 W	<200 mV _{SS}
SNP-Z101	A1	+5 V	0 A	11.5 A	100 W	14 A	110 W	<50 mV _{SS}
	A2	+12 V	0 A	3 A	100 W	4 A	110 W	<100 mV _{SS}
	A3	-12 V	0 A	0.5 A	100 W	0.5 A	110 W	<100 mV _{SS}
SNP-Z10D	A1	+3.3 V	0 A	10 A	80 W	15 A	130 W	<50 mV _{SS}
	A2	+5 V	0 A	8 A	80 W	15 A	130 W	<50 mV _{SS}
	A3	+12 V	0 A	0.5 A	80 W	0.5 A	130 W	<100 mV _{SS}

For fan cooling an 18 CFM (30 m³ / h) is required, for SNP-Z101 it is 25 CFM (42 m³). SNP-Z107 and -Z108 can provide 10 A peak and SNP-Z10T 3 A peak for 10 seconds. Ripple and noise was measured by a 15 MHz bandwidth limited oscilloscope with connected 22 µF electrolytic capacitor and 0.47 µF ceramic capacitor at the output (SNP-Z107, -Z108, -Z109: only with 0.47 µF ceramic capacitor). 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-Z10 series



Specification is subject to change without notice. Errors excepted. Date: 31.01.2012