

SNP-Z15 series

150 Watt

- 150 Watt continuous **fanless** power
- High efficiency up to 88 %
- Installation height 38.1 mm only

The power supply series SNP-Z15 can operate without fan at ambient temperatures of up to +70 °C. This is made possible by the high efficiency of up to 88 % and the use of high-grade components. Thus, the SNP-Z15 series can be used in closed equipment which is only convection-cooled. The power supplies are distinguished further by their robustness, a long service-life and high reliability. They are tested and approved for industrial and medical applications.



Technical data

Input voltage	90...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	<88 %
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: Switch off (model / respond threshold) SNP-Z157-1 (14...16 V), SNP-Z158-1 (17.6...20.1 V), SNP-Z159-1 (29...33 V), SNP-Z15T (55...62 V)
Network regulation	±0.5 % at nominal load and input voltage change of ±10 %
Load regulation	±1 % (A1 load step ±40 % relating to 60 % load, 230 VAC)
Earth leakage current	<300 µA
Safety / EMC	TÜV, UL, CB, CE
Operating temperature	0...+70 °C
Derating	In the range of +50...+70 °C, 2,5 % / °C
MTBF	>300 000 h according to MIL-HDBK-217F at +25 °C
Storage temperature	-40...+75 °C
Operating humidity	10...90 % RH, non-condensing
Dimensions	172.7 x 96.5 x 38.1 mm <u>Tolerances:</u> Mounting points: ±0.5 mm, for all other dimensions ±0.8 mm
Weight (net)	0.51 kg

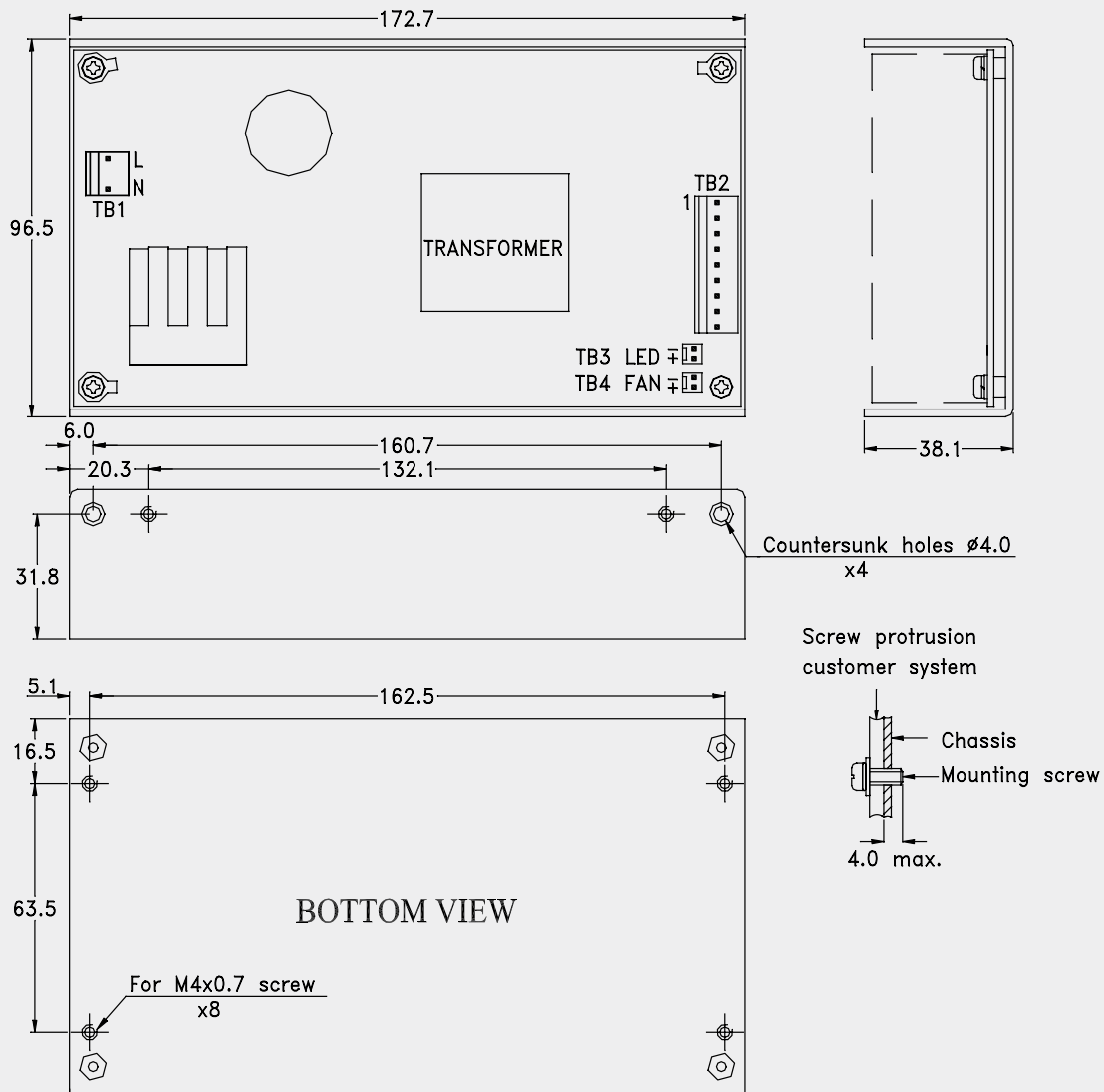
Article No.	Output voltage	Output current			Ripple & noise	Efficiency
		min	nominal load	peak		
SNP-Z157-1	+12 V	0 A	13 A	17.5 A	<100 mV _{SS}	85 %
SNP-Z158-1	+15 V	0 A	10 A	14 A	<100 mV _{SS}	85 %
SNP-Z159-1	+24 V	0 A	6.5 A	8.8 A	<100 mV _{SS}	86 %
SNP-Z15T	+48 V	0 A	3.2 A	4.6 A	<100 mV _{SS}	88 %

Peak load can be for 8 seconds. Ripple and Noise was measured by a 20MHz bandwidth limited oscilloscope with connected 470nF 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-Z15 series

Tolerances:

Mounting points: ±0.5 mm,
for all other dimensions ±0.8 mm



Connectors:

TB1: AC input / Molex 5277-02A
TB2: DC output / Molex 5273-09A
TB3: LED / TB5: Remote Sense / Molex 5045-02A
TB4: PIN1 NC / PIN2-7: GND / PIN 7-9: (+)

Type	TB4	max. load fan
SNP-Z157-1	12 V	<250 mA
SNP-Z158-1	12 V	<100 mA
SNP-Z159-1	24 V	<200 mA
SNP-Z15T	12 V	<250 mA