

# 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.



Industry

### Technical data

Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	4 A (115 V AC), 2 A (230 V AC)
Inrush current	<30 A (115 V AC), <60 A (230 V AC), +25 °C
Efficiency	85...88 %, depending on model
Hold up time	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 / 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 V AC)
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 (WxDxH)	96.5 x 172.7 x 38.1 mm <u>Tolerances:</u> Mounting points: ±0.5 mm, for all other dimensions ±0.8 mm
Weight (net)	0.51 kg

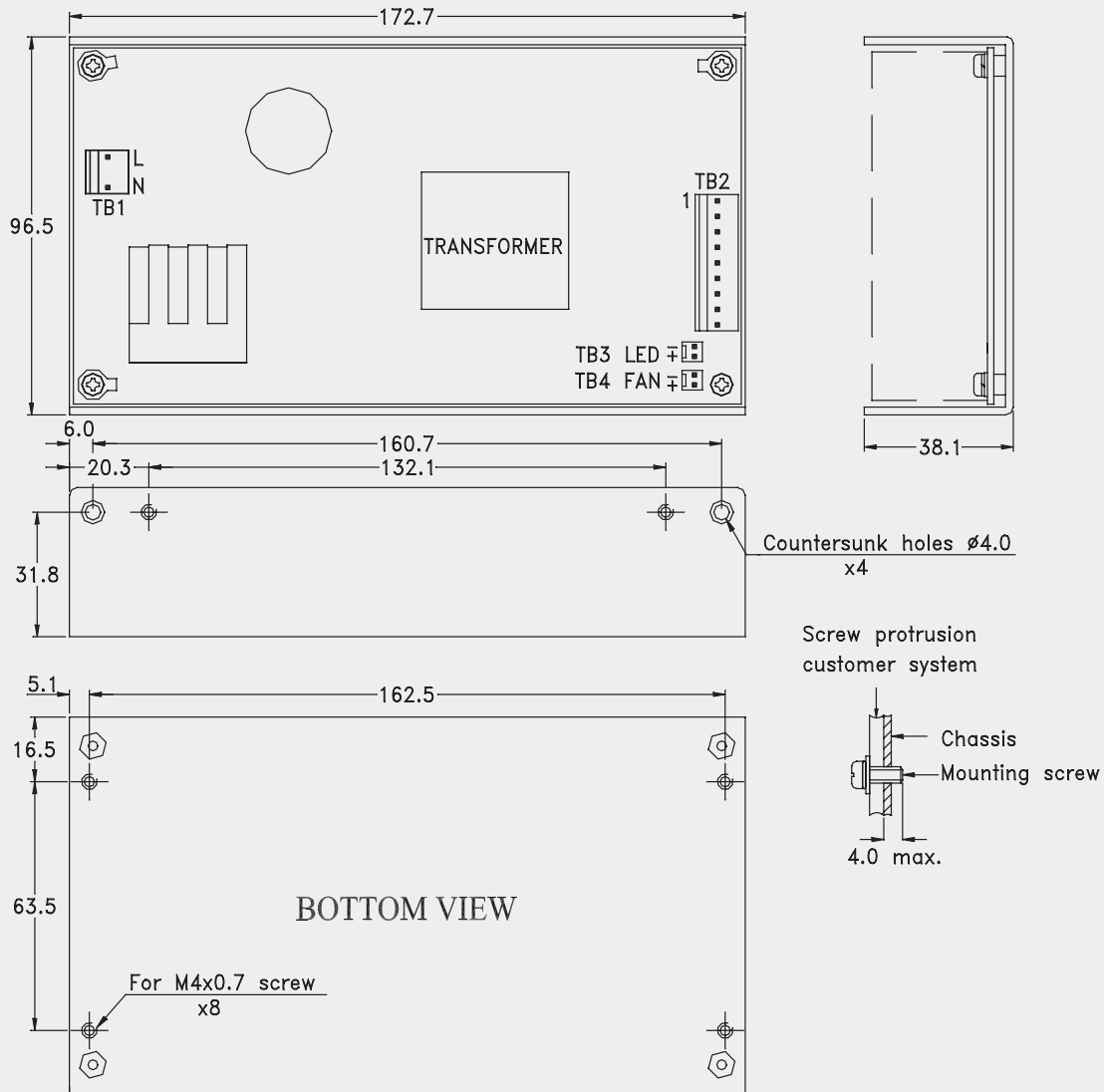
Article No.	Output voltage	Output current			Ripple & noise	Efficiency
		min	nominal load	peak		
SNP-Z157-1	+12 V	0 A	13 A	17.5 A	<100 mV <sub>SS</sub>	85 %
SNP-Z158-1	+15 V	0 A	10 A	14 A	<100 mV <sub>SS</sub>	85 %
SNP-Z159-1	+24 V	0 A	6.5 A	8.8 A	<100 mV <sub>SS</sub>	86 %
SNP-Z15T	+48 V	0 A	3.2 A	4.6 A	<100 mV <sub>SS</sub>	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  
 TB2: 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

Specification is subject to change without notice. Errors excepted. Status as at: 16.12.2011