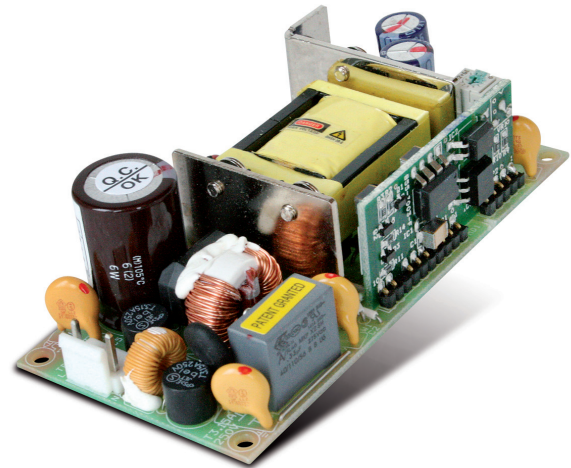


## SNP-Z05 series

50 Watt

- For demanding industrial applications
- IEC / EN60601-1 and EN60950 certified
- Operating temperature up to +60 °C

The units of the SNP-Z05 series are ideal power supplies for medical and industrial applications. The series has an operating ambient temperature of up to +60 °C and its cost-performance ratio is extremely favourable. High-grade components are the basis for the high MTBF.



Industry

Technical data	
Input voltage	90...264 V AC
Input frequency	47...63 Hz
Input current	2 A (115 V AC), 1 A (230 V AC)
Inrush current	<30 A (115 V AC), <60 A (230 V AC)
Efficiency	73...86 %, depending on model
Hold up time	App. 14 ms (115 V AC) / App. 20 ms (115 V AC) (SNP-Z05B, SNP-Z056)
Protection	Short circuit protection: Switch off with auto-recovery Overload protection: Switch off with auto-recovery Overvoltage protection: Switch off (model / response threshold) SNP-Z05B / 3.6 V...5 V, SNP-Z056 / 5.7 V...7 V, SNP-Z057 / 13.1 V...15.1 V, SNP-Z058 / 17.6 V...20.1 V, SNP-Z59 / 26.2 V...31 V, SNP-Z05T / 55 V...62 V
Insulation voltage	Input / Ground 2837 V DC Input / Output 4242 V DC
Line regulation	±0.5 % at rated load and input voltage change of ±10 %
Load regulation	±1.5 % (load step ±40 % related to 60 % load, without fan) SNP-Z05B ±1 % (load step ±40 % related to 60 % load, without fan) SNP-Z056 ±0.5 % (load step ±40 % related to 60 % load, without fan) SNP-Z057, -Z058, -Z59, -Z5T
Earth leakage current	<300 µA max. (240 V AC / 60 Hz)
Safety / EMC	TÜV (IEC / EN60601-1, 60950) / UL (UL60601-1, 60950), (SNP-Z05B, SNP-Z056 no UL60950)
Operating temperature	0...+60 °C
Derating	In the range of 50...60 °C, 2 % / °C
MTBF	>280 000 h at +50 °C, according to MIL-HDBK-217F (depending on model)
Storage temperature	-40...+75 °C
Operating humidity	10...90 % RH, non-condensing
Dimensions (WxDxH)	50.8 x 101.6 x 30.9 mm ±0.5 mm
Weight (net)	0.15 kg

Product specific data	
Fan	At full load a fan with 3 CFM (5.1 m³/h) air flow rate is required.

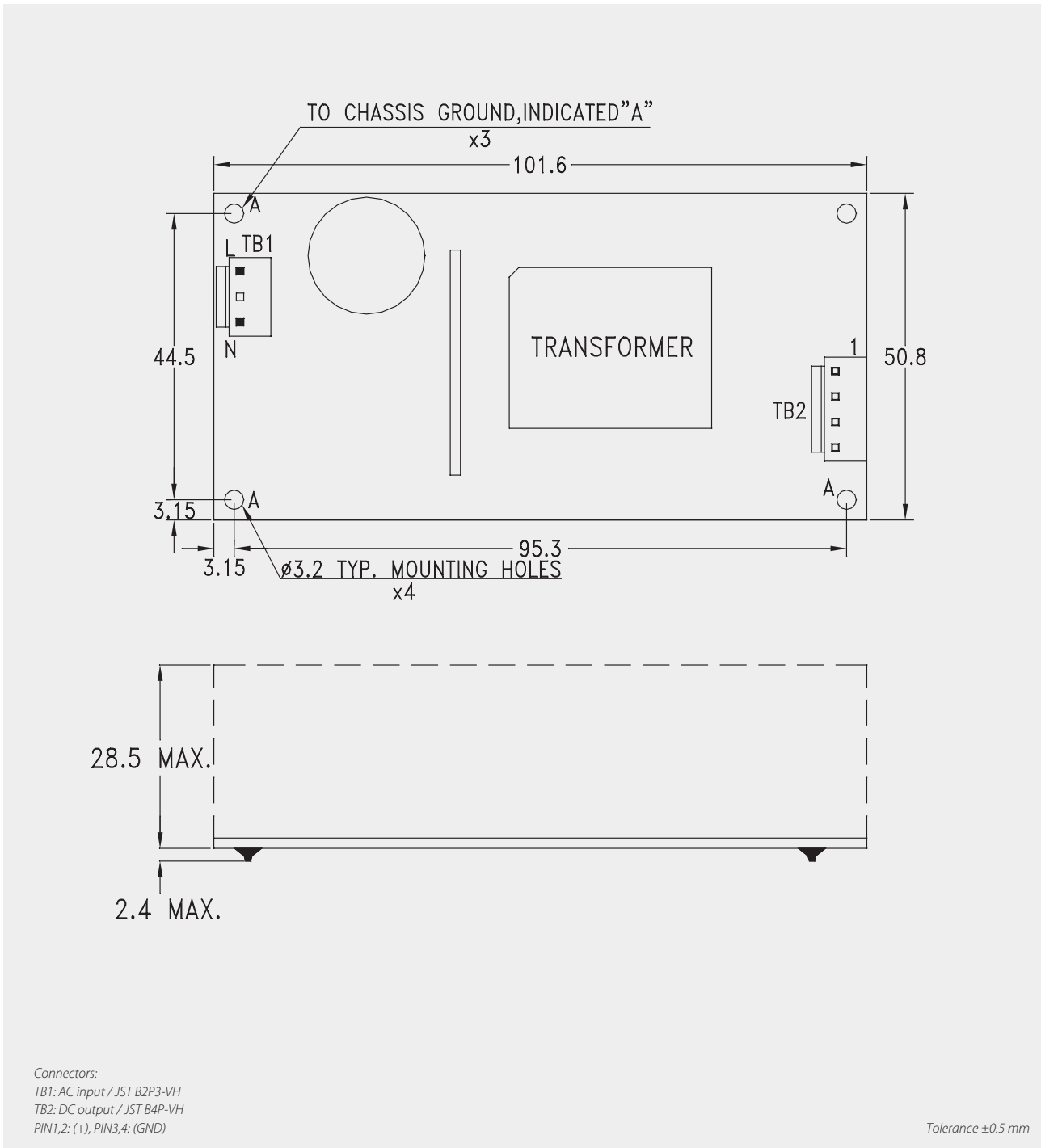
**Optional accessory** ▷▷▷ For detailed information please visit our website [www.bicker.de](http://www.bicker.de) and refer to the article number.

Article No.	Description
CB-Z05	DC cable harness for SNP-Z05X series / 600 mm / AWG 18 / ends open
X1-054	AC input cable harness / 2-pole / for SNP-Z05X series / 600 mm / AWG 18 / ends open

Article No.	Output voltage	Output current min	Output current max.		Ripple & Noise	Efficiency
			Convection-cooled	Fan-cooled		
SNP-Z05B	+3.3 V	0 A	8 A	10 A	50 mV <sub>SS</sub>	73 %
SNP-Z056	+5 V	0 A	7 A	9 A	50 mV <sub>SS</sub>	76 %
SNP-Z057	+12 V	0 A	4.6 A	5.4 A	60 mV <sub>SS</sub>	83 %
SNP-Z058	+15 V	0 A	3.7 A	4.3 A	75 mV <sub>SS</sub>	83 %
SNP-Z059	+24 V	0 A	2.3 A	2.7 A	120 mV <sub>SS</sub>	85 %
SNP-Z05T	+48 V	0 A	1.15 A	1.35 A	240 mV <sub>SS</sub>	86 %

Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 0.47 µF ceramic capacitor (SNP-Z05B / -Z056: 0.56 µF ceramic capacitor) at the 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-Z05 series



Specification is subject to change without notice. Errors excepted. Date: 16.12.2011