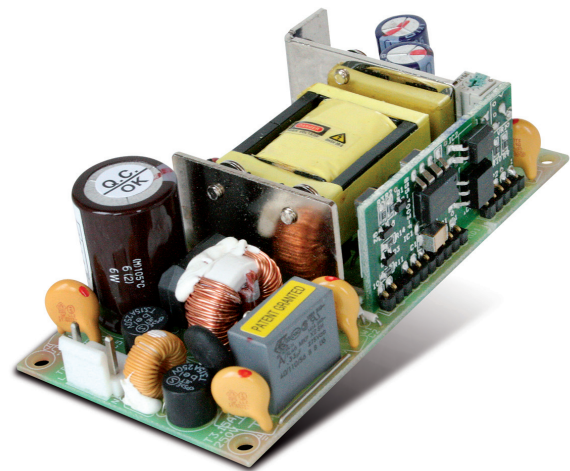


SNP-Z05 series

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.

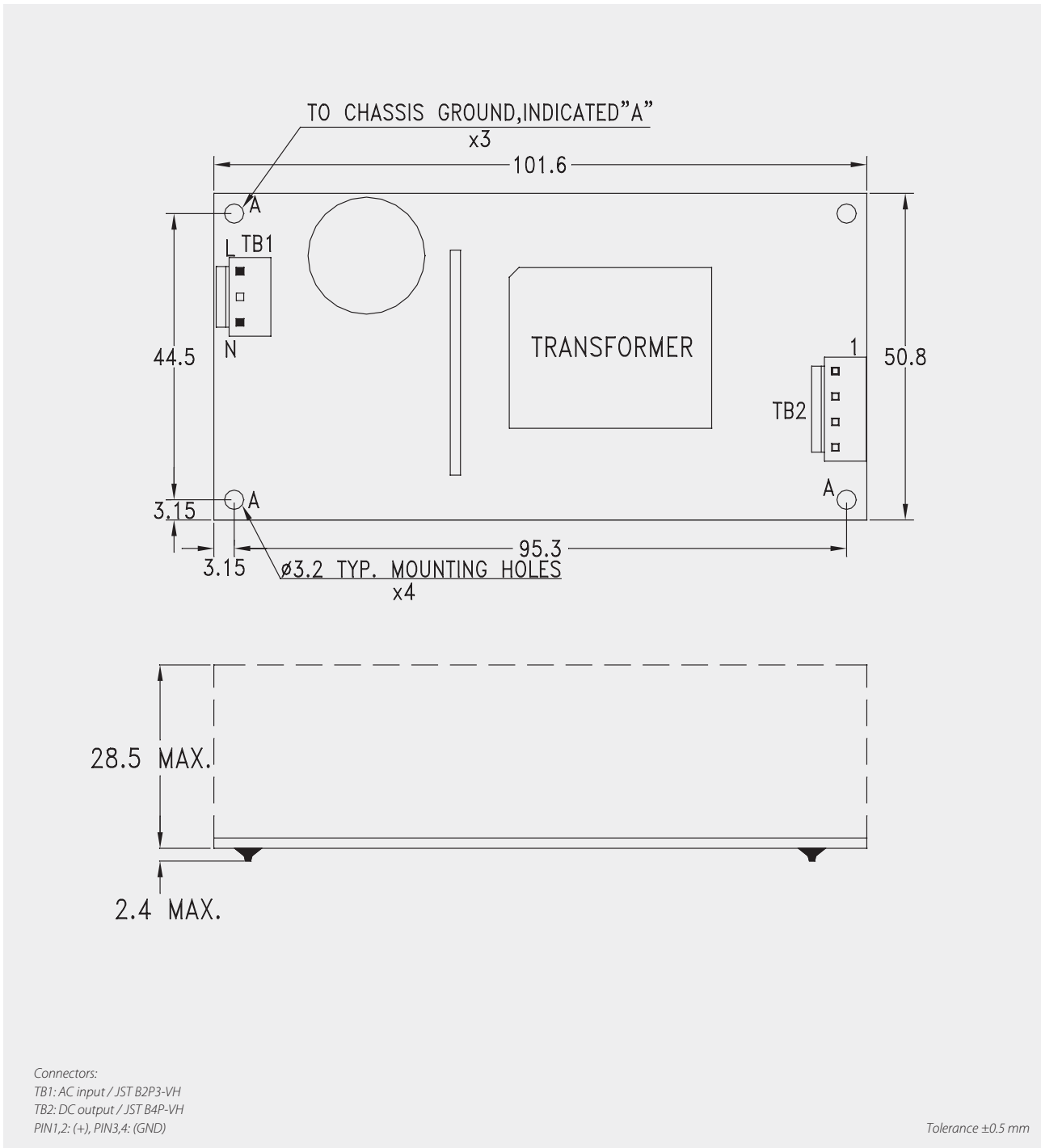
Optional accessory ▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.

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 _{SS}	73 %
SNP-Z056	+5 V	0 A	7 A	9 A	50 mV _{SS}	76 %
SNP-Z057	+12 V	0 A	4.6 A	5.4 A	60 mV _{SS}	83 %
SNP-Z058	+15 V	0 A	3.7 A	4.3 A	75 mV _{SS}	83 %
SNP-Z059	+24 V	0 A	2.3 A	2.7 A	120 mV _{SS}	85 %
SNP-Z05T	+48 V	0 A	1.15 A	1.35 A	240 mV _{SS}	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