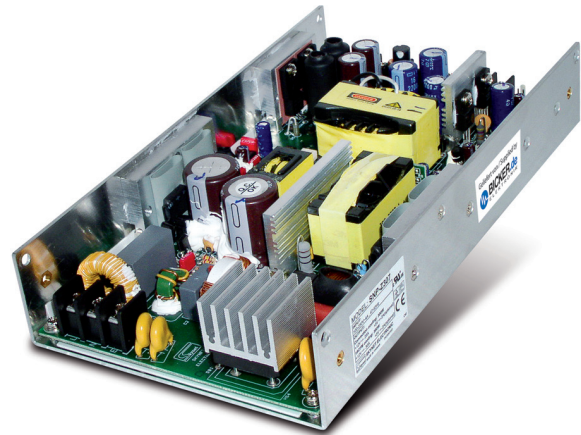


## SNP-Z30 series

300 Watt

- 300 Watt continuous fanless power
- High efficiency up to 90 %
- Installation height only 40.6 mm

The SNP-Z30 power supply series is distinguished by its very high efficiency ranging from 85 to 90 %. Thus, it can supply 300 W continuous power up to an operating ambient temperature of +50 °C. The complete operating ambient temperature range even extends from 0 °C to +70 °C. The use of high-grade components guarantees a long lifetime for the SNP-Z30 series. Additionally, all models are equipped with overload, short circuit and overvoltage protection.



Industry

Technical data	
Input voltage	85...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...90 %, 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 / response threshold) SNP-Z307 / 13.1 V...15.1 V, SNP-Z309 / 26 V...31 V, SNP-Z30T / 55 V...62 V Overtemperature protection: SNP-Z309, -30T: Switch off at +110 °C
Line regulation	±1 % at rated load and input voltage change of ±10 % SNP-Z307: ±0.5 % at rated load and input voltage change of ±10 %
Load regulation	±1 % (A1, A2, load step ±40 % related to 60 % rated load, 230 V AC) ±5 % (A2, A3, load step ±40 % related to 60 % rated load, 230 V AC)
Safety / EMC	TÜV / UL / CB / CE
Operating temperature	0...+70 °C
Derating	In the range from 50 to +70 °C, 2.5 % / °C
Storage temperature	-20...+85 °C
Operating humidity	10...95 % RH, non-condensing
Dimensions (WxDxH)	127 x 228.6 x 40.6 mm Tolerances: Mounting points: ±0.5 mm, all other dimensions ±0.8 mm
Weight (net)	1.05 kg

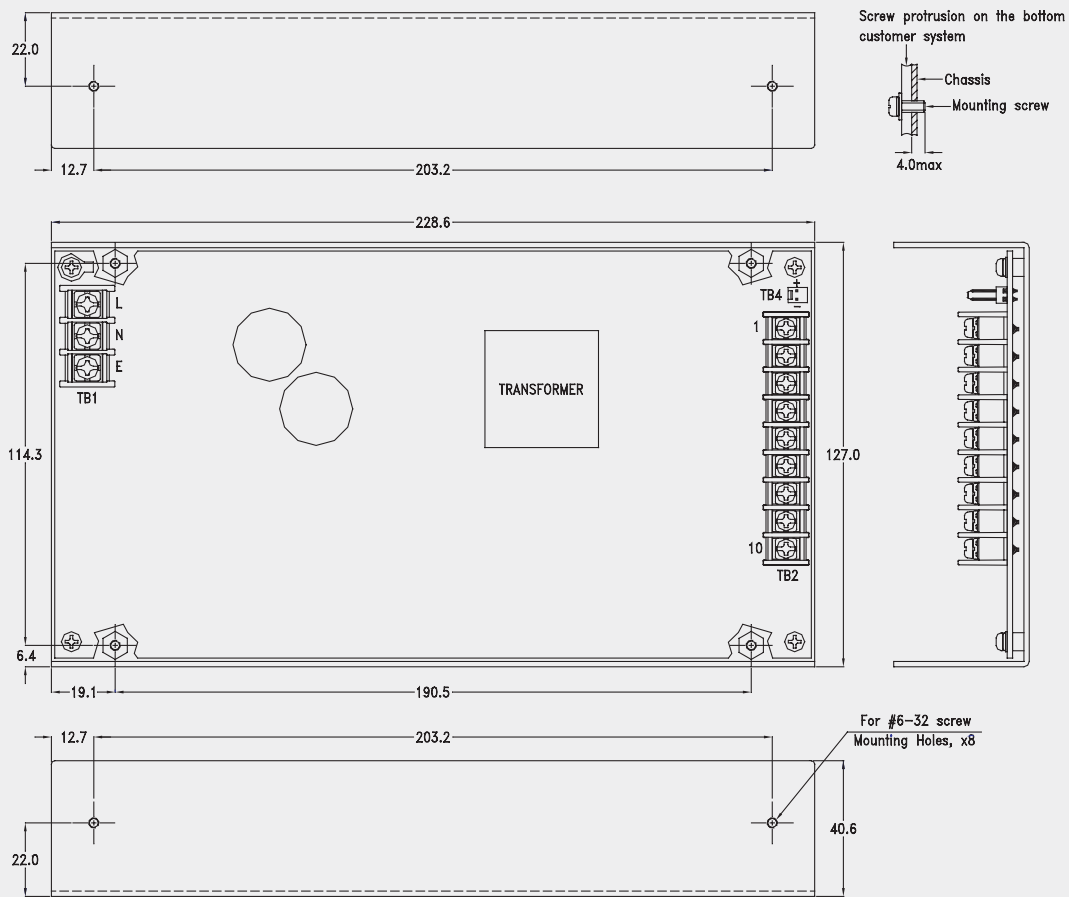
Product specific data	
Remote sense	Regulation range 0.5 V, at A1
Convection-cooled	300 W: SNP-Z307, SNP-Z301, SNP-Z306, SNP-Z309 310 W: SNP-Z30T
Fan-cooled	360 W: 18CFM (31 m³/h) SNP-Z301, SNP-Z306, SNP-Z307 360 W: 22CFM (38 m³/h) SNP-Z309, -Z30T

Article No.	Output	Output voltage	Output current			Ripple & Noise	Efficiency
			min	Rated load	max load		
SNP-Z301	A1	+5 V	0 A	32 A	45 A	<50 mV <sub>SS</sub>	85 %
	A2	+12 V	0 A	10 A	14 A	<120 mV <sub>SS</sub>	
	A3	-12 V	0 A	1 A	2 A	<120 mV <sub>SS</sub>	
SNP-Z307	A1	+12 V	0 A	25 A	30 A	<120 mV <sub>SS</sub>	88 %
	A2	+5 V	0 A	2 A		<50 mV <sub>SS</sub>	
SNP-Z309	A1	+24 V	0 A	12 A	14.6 A	<240 mV <sub>SS</sub>	88 %
	A2	+5 V	0 A	2 A		<50 mV <sub>SS</sub>	
SNP-Z30T	A1	+48 V	0 A	6.25 A	7.3 A	<200 mV <sub>SS</sub>	90 %
	A2	+5 V	0 A	2 A		<50 mV <sub>SS</sub>	

Ripple and noise was measured by a 15 MHz bandwidth limited oscilloscope with connected 47 µF electrolytic capacitor and 0.47 µF ceramic capacitor at each output (SNP-Z307: 10 µF electrolytic capacitor and 0.47 µF ceramic capacitor, SNP-Z309 / -Z30T: 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-Z30 series



### Connectors:

SNP-Z301: TB1: AC input / clamping screw, TB2: DC output / clamping screw, TB4: Remote Sense / Molex 5045-02A  
TB2: PIN1,2,3: +5 V / PIN4,5,6,7,8: GND / PIN9: +12 V / PIN10: -12 V

SNP-Z307: TB1: AC input / clamping screw, TB2: DC output / clamping screw, TB3: fan / TB4: Remote Sense / Molex 5045-02A  
TB2: PIN1,2,3: +12 V / PIN4,5,6: GND / PIN7: GND (+5 V) / PIN8: +5 V

SNP-Z309: TB1: AC input / clamping screw, TB2: DC output / clamping screw, TB3: fan / TB4: Remote Sense / Molex 5045-02A  
TB2: PIN1,2: +24 V / PIN3,4: GND / PIN5: GND (+5 V) / PIN6: +5 V

SNP-Z30T: TB1: AC input / clamping screw, TB2: DC output / clamping screw, TB3: fan / TB4: Remote Sense / Molex 5045-02A  
TB2: PIN1,2: +48 V / PIN3,4: GND / PIN5: GND (+5 V) / PIN6: +5 V

### Tolerances:

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