

# SNP-Z20 Series

**Rated 200W**  
**Max 250W**



## Features

- 4.2" x 8" footprint, U-Bracket
- ITE & Medical models available
- Built-in Active PFC



## Model Selection

Model No.	Output Rail	Load			Initial Accuracy*	Ripple & Noise*	Load Regulation	Efficiency
		Min	Rated	Max				
SNP-Z207	+12V	0A	17A	21A	+11.9V~+12.1V	100mV	±1%	85%
SNP-Z207-M	+12V	0A	17A	21A	+11.9V~+12.1V	100mV	±1%	85%
SNP-Z208	+15V	0A	13.5A	17A	+14.9V~+15.1V	100mV	±1%	85%
SNP-Z205	+18V	0A	11.3A	14A	+17.82V~+18.18V	150mV	±1%	85%
SNP-Z209	+24V	0A	8.5A	10.5A	+23.9V~+24.1V	100mV	±1%	85%
SNP-Z209-M	+24V	0A	8.5A	10.5A	+23.9V~+24.1V	100mV	±1%	85%
SNP-Z20T	+48V	0A	4.3A	5.2A	+47.9V~+48.1V	100mV	±1%	85%
SNP-Z201*	+5V	2A	20A	25A	+4.95V~+5.05V	50mV	±1%	80%
	+12VA	0A	6A	8A	+11.4V~+12.6V	120mV	±1%	
	+12VB	0A	2A	3A	+11.4V~+12.6V	120mV	±5%	

## General Specifications

<b>– Input &amp; Output –</b>		<b>– EMC –</b>	
Input voltage range	85VAC to 264VAC	Emission	FCC/CISPR, level B
Label voltage	100VAC to 250VAC	Harmonic currents	EN61000-3-2, class D
Nominal line voltage	115VAC / 230VAC	ESD	EN61000-4-2, criterion B
Input frequency range	47Hz to 63Hz		4kV contact, 8kV air discharge
Inrush current*	<30A at 115VAC, <60A at 230VAC	Radiated immunity	EN61000-4-3
Line regulation	<±1%		3V/M with 80% AM, criterion A
Hold-up time	>20ms	EFT/Burst	EN61000-4-4, 2kV, criterion B
		Surge	EN61000-4-5, 1kV L-L, 2kV L-E, criterion B
<b>– Protection –</b>		Conducted immunity	EN61000-4-6, 3V with 80% AM, criterion A
Over Voltage*	Latch-off	MS	EN61000-4-8, 30A/m, criterion A
Over Load / Short	Auto-recovery	Voltage dips	EN61000-4-11
Over Temperature	Latch-off		30% dips 10ms, criterion A
			60% dips 100ms, criterion C
			95% dips 5000ms, criterion C
<b>– Environmental –</b>		<b>– Safety –</b>	
Operating temperature	0°C to +70°C	Approvals	60950-1, 2 <sup>nd</sup> edition (TUV, UL, CSA)
Cooling	Convection for rated load		60601-1, 2 <sup>nd</sup> edition (TUV, UL, CSA)
	18CFM forced air for max load		CB Report, CE Mark
Power derating	Refer to Power Derating Curve		
Storage temperature	-20°C to +85°C		
Relative humidity	10% to 90% RH, non-condensing		
Operating altitude	0 to 2000m		

## Notes

- All specifications without special notices are defined at nominal line, rated load and 25°C.
- Models with suffix "-M" are only for medical use; others are only for ITE use.
- Initial accuracy is set at 60% rated load and 115VAC input.
- Ripple & Noise is defined with 15MHz BWL oscilloscope and 1X probe with 0.47uF output capacitor.
- Inrush current is defined at 25°C cold start and EMI capacitors are excluded.
- Over voltage protection mode is defined at 60% rated load.
- For SNP-Z201, max combination load of all outputs is 200W in convection cooling, and 250W in 18CFM forced air cooling.
- For SNP-Z201, +5V and +12VA has the same GND, and +12VB has a separated GND. Please refer to output pin assign table.
- All specifications subject to change without notice.
- This datasheet is only for model selection. Please contact [sales@skynetpower.com.tw](mailto:sales@skynetpower.com.tw) for formal specification.

## Output Pin

PIN NO.	1	2	3	4	5	6	7	8
SNP-Z201*	+5V	+5V	GND1	GND1	GND1	+12VA	GND2	+12VB
SNP-Z207	+12V	+12V	+12V	GND	GND	GND		
SNP-Z207-M	+12V	+12V	+12V	GND	GND	GND		
SNP-Z208	+15V	+15V	+15V	GND	GND	GND		
SNP-Z205	+18V	+18V	+18V	GND	GND	GND		
SNP-Z209	+24V	+24V	+24V	GND	GND	GND		
SNP-Z209-M	+24V	+24V	+24V	GND	GND	GND		
SNP-Z20T	+48V	+48V	+48V	GND	GND	GND		

## Connector type\*

- TB1 AC input : Terminal Blocks
- TB2 DC output : Terminal Blocks
- TB3 FAN : Molex 5045-02A
- TB4 LED : Molex 5045-02A
- TB5 Remote sense : Molex 5045-02A

## Dimensions

- WxLxH : 4.2" x 8" x 1.5"  
106.7 x 203.2 x 38.1 (mm)

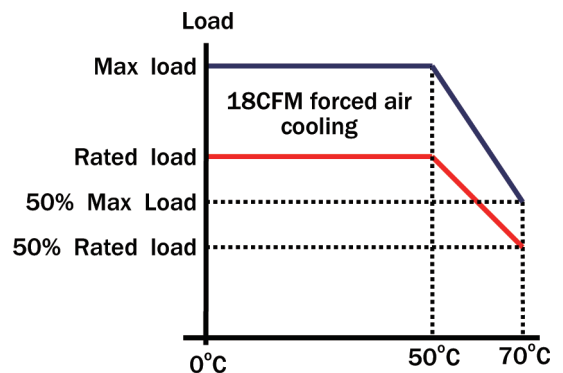
## Packing

- Net weight : 660g approx./unit
- Carton size (mm) : 510(L) x 335(W) x 339(H)
- Quantity : 16 units / carton
- Gross weight : 14kg approx./carton

## Notes

- For all connectors equivalent types from other vendors could be used.
- In SNP-Z201 output pin assign table, GND1 is for +5V and +12VA, and GND2 is for +12VB.
- Max fan output current is 0.2A.
- Fan output is +15V for SNP-Z208, +24V for SNP-Z209/Z209-M, and +12V for other models.
- Dimensions in left graph are shown in mm.
- Tolerance is  $\pm 0.4$ mm for distance between mounting holes, and  $\pm 0.8$ mm for other dimension.
- This product is RoHS compliant.

## Power Derating Curve



## Max Load Fan Location

