



**Features:**

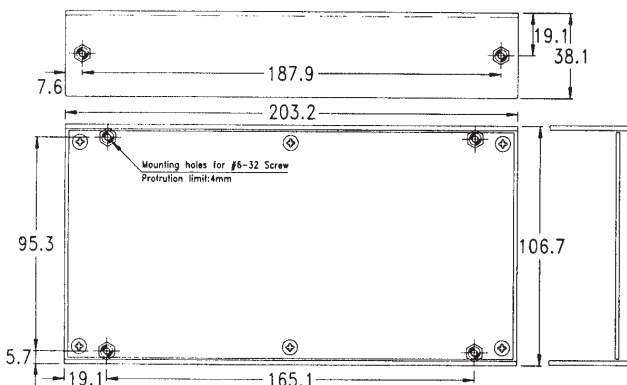
- With built-in PFC
- Only 1.5 inch height
- 4.0 Watt per cubic inch
- With ITE safety only
- Efficiency between 82% to 87%
- Operation from 0°C to 70°C by convection
- SNP-Z207-M, SNP-Z209-M for Medical

**General Specifications:**

Input voltage ..... 90 VAC to 264 VAC  
 Input frequency ..... 47 Hz to 63 Hz  
 Power factor ..... > 0.93  
 Inrush current ..... less than 30A at 115VAC  
 or 60A at 230VAC cold start, 25°C  
 Efficiency ..... 82%~87% depends on models  
 Hold up time ..... >20 ms  
 at rated load and 115VAC  
 Over load protection ..... auto recovery  
 Short circuit protection..... auto recovery

Over voltage protection ..... latch off  
 Operating temperature (open frame type) ..... 0°C to 70°C  
 derating: 2.5% / °C > 50°C  
 Cooling ..... 200W free air convection  
 250W 18CFM forced air  
 Storage temperature ..... -20°C to +85°C  
 EMI ..... EN55022 "B"  
 Harmonics..... EN61000-3-2 class D  
 EMS..... EN61000-4-2,-3,-4,-5,-6,-11  
 Safety ..... UL 60950, UL 60601-1  
 CSA C22.2 No. 234 & 60601-1  
 TUV EN60950-1 & 60601-1

**Mechanical Specifications:**



**Notes:**

1. Dimensions shown in mm as left. Tolerance: +/-1mm (Excluding cables).
2. Size:  
106.7 X 203.2 X 38.1 (mm)  
4.2" X 8.0" X 1.5"
3. Packing:  
Net weight: 740 g approx. / unit  
Gross weight: 14 kg approx. / carton, 16 units / carton  
Carton size (mm): 426 (L) x 313 (W) x 267 (H)
4. Connectors:  
AC input : Terminal blocks  
DC output: Terminal blocks  
Fan, Remote sense, LED:  
Molex 5045-02A or equivalent



THE RELIABLE SOURCE

## General Purpose (Universal)

PFC + 200W  
SNP-Z20 Series

### Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.				
SNP-Z201	+5V	2A	20A	25A	+4.95V~+5.05V	50mVpp	±1%	±1%
	+12VA	0A	6A	8A	+11.4V~+12.60V	120mVpp	±1%	±1%
	+12VB	0A	2A	3A	+11.4V~+12.60V	120mVpp	±1%	±5%
SNP-Z20D	+3.3V	2A	16A	30A	+3.20V~+3.40V	50mVpp	±1%	±1%
	+5V	2A	12A	20A	+4.75V~+5.25V	50mVpp	±1%	±1%
	+12V	0.5A	5A	10A	+11.40V~+12.60V	120mVpp	±1%	±1%
SNP-Z206	+5V	0A	36A	45A	+4.95V~+5.05V	50mVpp	±1%	±1%
SNP-Z207	+12V	0A	17A	21A	+11.40V~+12.60V	100mVpp	±1%	±1%
SNP-Z207-M	+12V	0A	17A	21A	+11.40V~+12.60V	100mVpp	±1%	±1%
SNP-Z208	+15V	0A	13.5A	17A	+14.25V~+15.75V	100mVpp	±1%	±1%
SNP-Z205	+18V	0A	11.3A	14A	+17.1V~+18.9V	150mVpp	±1%	±1%
SNP-Z209	+24V	0A	8.5A	10.5A	+23.80V~+24.20V	100mVpp	±1%	±1%
SNP-Z209-M	+24V	0A	8.5A	10.5A	+23.80V~+24.20V	100mVpp	±1%	±1%
SNP-Z20T	+48V	0A	4.3A	5.2A	+45.60V~+50.40V	100mVpp	±1%	±1%

#### Note:

1. Each output can provide up to max load separately when the power supply starts up. To exceed the max. output power continuously is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.
8. +12VB is floating.

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