General Purpose



Rated 200W SNP-Z20 Series



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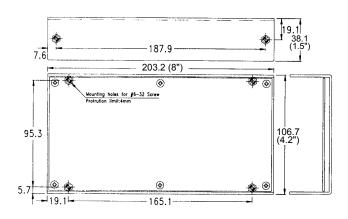


4.2" x 8" x 1.5"

General Specifications:

Input voltage	
Input frequency	
Inrush current	< 30A at 115VAC
(cold start at 25°C)	or < 60A at 230VAC
Efficiency	80%~85% 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

Mechanical Specifications:



Features:

- With built-in PFC
- Only 1.5 inch height
- 4.0 Watt per cubic inch
- With ITE safety only
- Efficiency between 80% to 85%
- Operation from 0°C to 70°C by convection
- SNP-Z207-M, SNP-Z209-M for Medical only

Applications:

• For dental, laboratory products, pumps, monitors, sleep apnea devices and many other uses.

Operating temperature (oper	n frame type) 0° C to 70° C
	derating: 2.5% / °C > 50°C
Cooling	
	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

Notes:

- 1. Size:
- 4.2" x 8.0" x 1.5" 2. Mounting Hole:
- 2. Mounting Hole: 95.3 x 165.1 (mm)
- Connectors: AC input : Terminal blocks DC output: Terminal blocks Fan, Remote sense, LED:
- Molex 5045-02A or equivalent4. Output Pin assignment:

-	-							
PIN NO.	1	2	3	4	5	6	7	8
SNP-Z201*	+5V	+5V	GND1	GND1	GND1	+12VA	GND2	+12VB
Other Models	+V	+V	+V	GND	GND	GND		

4. 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)

-Steven

10 years Warranty (contact Skynet's Distributors for details)



Output Specifications:

MODEL	OUTPUT	LOAD				VOLTAGE	RIPPL	LINE	LOAD
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	NOISE	REG.	REG.
	+5V	2A	20A	25A		+4.95V~+5.05V	50mVpp	±1%	±1%
SNP-Z201	+12VA	0A	6A	8A		+11.4V~+12.60V	120mVpp	±1%	±1%
	+12VB	0A	2A	3A		+11.4V~+12.60V	120mVpp	±1%	±5%
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 $\pm 10\%$ 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.

9. Model Selection:

SNP-Z20x is for ITE application.

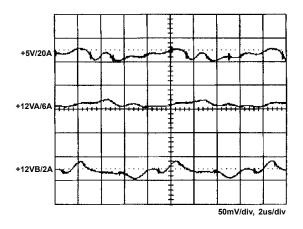
SNP-Z207-M and SNP-Z209-M are for medical application.

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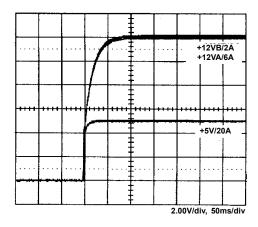


Performance for SNP-Z201:

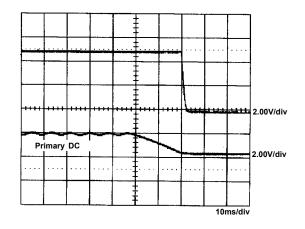
1. Switching frequency ripple



3. Output turn on wave form

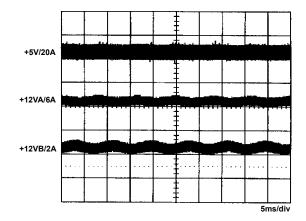


5. Hold-up time

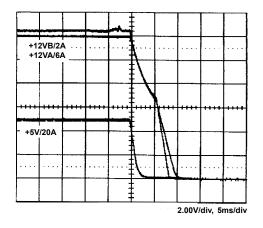


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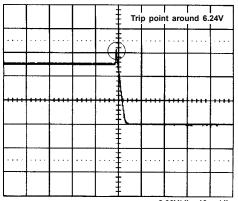
2. Line frequency ripple



4. Output turn off wave form



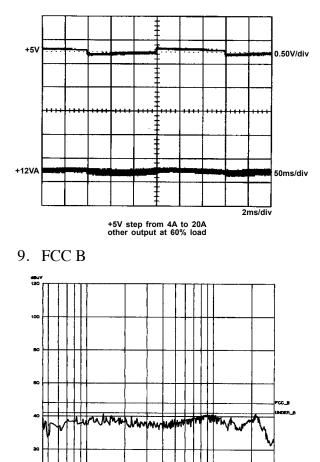
6. Over voltage protection



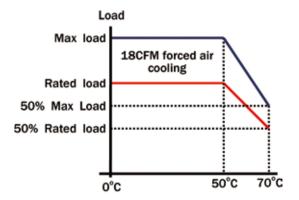
2.00V/div, 10ms/div



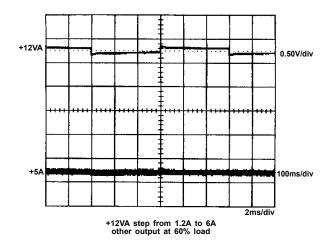
7. +5V step response



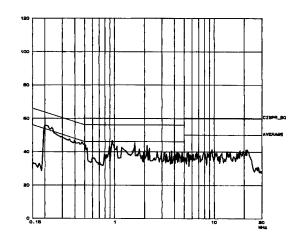
11. Power derating curve



8. +12V step response



10. CISPR 22 B



12. Max. load fan location

