

General Purpose Rated 100W

SNP-Z10 Series

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3" x 5" x 1.18"/1.26"

General Specifications:

Input voltage							
Input frequency	47 Hz to 63 Hz						
Inrush current	< 30A at 115VAC						
(cold start at 25°C)	or < 60A at 230VAC						
Efficiency	80%~90% depends on models						
Hold up time	20ms typical						
	at rated load and 115VAC						
Over load protection	auto recovery						
Short circuit protection	auto recovery						
Over voltage protection	latch off						
Remote Sense compensates for 0.5V load drop min.							

Mechanical Specifications:

SNP-Z106



Features:

- With built-in PFC
- Only 1.26 inch height
- 4.8 Watt per cubic inch
- With ITE safety
- Efficiency between 80% to 90%
- Operation from 0°C to 50°C by convection

Applications:

- For industrial device such as IPC system.
- For peak power required system such as coffee machine.

Max. capacitive load	SNP-Z106 / 30000uF
SNP-	Z107 / 10000uF, SNP-Z109 / 2700uF
Operating temperature	0°C to 50°C convection
Cooling	free air convection for 100W
v	with 18CFM forced air flow for 130W
Storage temperature	20°C to +85°C
EMI	EN55022 "B"FCC "B"
Harmonics	EN61000-3-2
EMS	EN61000-4-2,-3,-4,-5,-6,-11
Safety	UL 60950-1
CSAC	22.2 No. 60950-1, TUV EN 60950-1

Notes:

- Size SNP-Z106, Z107, Z108, Z109, Z10T, Z10B 1.1
- 3" x 5" x 1.18" 1.2 SNP-Z101, Z103, Z10D
- 3" x 5" x 1.26" Mounting Hole: 64.8 x 115.6 (mm) 2.

3.

- Connectors: AC input : Molex 5277-02A or equivalent DC output :
 - Molex 5273 or equivalent

Molex 5045-02A or equivalent (for SNP-Z10x, x=6, 7, 8, 9, B, T) Remote Sense : Fan Output : Molex 5045-02A or equivalent (for SNP-Z10, SNP-Z10D) 4 Output Pin assignment:

- 1	0									
PIN NO.	1	2	3	4	5	6	7	8	9	10
SNP-Z10D	+3.3V	+3.3V	GND	GND	GND	GND	GND	+5V	+5V	+12V
SNP-Z101	+5V	+5V	+5V	GND	GND	GND	GND	+12V	-12V	
SNP-Z106	+5V	+5V	+5V	+5V	GND	GND	GND	GND		
SNP-Z103	+12V	+12V	GND	GND	GND	GND	+5V	+5V		
Other Models	+V	+V	+V	GND	GND	GND				

5. Packing:

Net weight: 310 g approx. / unit Gross weight: 17 kg approx. / carton, 48 units / carton Carton size (mm): 397 (L) x 339 (W) x 327 (H)

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



Output Specifications:

MODEL	OUTPUT	LOAD				VOLTAGE	RIPPLE	LINE	LOAD
NO.	RAIL	MIN.	RAGED	MAX.	PEAK	ACCURACY	NOISE	REG.	REG.
SNP-Z106	+5V	0A	20A	26A		+4.95V~+5.05V	50mVpp	±0.5%	±1%
SNP-Z107	+12V	0A	9A	10.8A		+11.90V~+12.10V	120mVpp	±0.5%	±1%
SNP-Z108	+15V	0A	7A	8.7A		+14.90V~+15.10V	120mVpp	±0.5%	±1%
SNP-Z109	+24V	0A	4.5A	5.4A		+23.80V~+24.20V	200mVpp	±0.5%	±1%
SNP-Z10T	+48V	0A	2.3A	2.7A		+47.60V~+48.40V	200mVpp	±0.5%	±1%
	+5V	0A	11.5A	15A		+4.95V~+5.05V	50mVpp	±0.5%	±1%
SNP-Z101	+12V	0A	3A	5A		+11.40V~+12.60V	100mVpp	±0.5%	±5%
	-12V	0A	0.5A	0.5A		-11.40V~-12.60V	100mVpp	±0.5%	±5%
	+5V	0A	7A	10A		+4.95V~+5.05V	50mVpp	±0.5%	±1%
SNP-Z103*	+12V	0A	8A	10A		+11.40V~+13.20V	120mVpp	±0.5%	±5%
	+3.3V	0A	10A	15A		+3.20V~+3.40V	50mVpp	±0.5%	±1%
SNP-Z10D	+5V	0A	8A	10A		+4.75V~+5.25V	50mVpp	±0.5%	±5%
	+12V	0A	0.5A	0.5A		+11.40V~+12.60V	100mVpp	±0.5%	±5%
SNP-Z10B	+3.3V	0A	25A	30A		+3.20V ~+3.40V	50mVpp	±0.5%	±1%

* SNP-Z103: Convection cooling : 100W Forced air with 18CFM : 130W

Note:

- 1. The total output current is rated load with free air convection and max. load with 18CFM of forced air flow over the unit.
- 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 and a 47*u*F electrolytic 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.
- 10. Model Selection:
 - SNP-Z10x is for ITE application.



Performance for SNP-Z106:

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





Rated 100W SNP-Z10 Series

7. +5V step response



9. EN55022 B



11. Max. load fan location





10. Thermal profile



Test condition: M/N : SNP-Z106, Input : 104V Output : 5V/20A, Ambient : 25.5°C

12. Power derating curve



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