



### Features

- 3" x 5" footprint
- Compact Size with only 1.18" Height
- ITE & Medical models available
- Built-in Active PFC



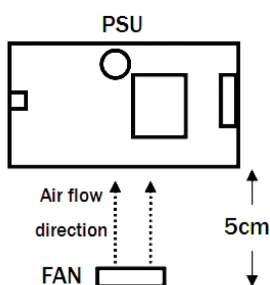
### Model Selection

Model No.*	Output Rail	Load				Initial Accuracy*	Ripple & Noise*	Load Regulation	Efficiency
		Min	Rated	Max	Peak*				
SNP-Z10B	+3.3V	0A	25A	30A		+3.25V~+3.35V	50mV	±1%	80%
SNP-Z106	+5V	0A	20A	26A		+4.95V~+5.05V	50mV	±1%	80%
SNP-Z107	+12V	0A	9A	10.8A		+11.9V~+12.1V	120mV	±1%	85%
SNP-Z108	+15V	0A	7A	8.7A	10A	+14.9V~+15.1V	120mV	±1%	85%
SNP-Z109	+24V	0A	4.5A	5.4A		+23.8V~+24.2V	240mV	±1%	85%
SNP-Z10T	+48V	0A	2.3A	2.7A	3A	+47.6V~+48.4A	120mV	±1%	88%
SNP-Z103	+5V	0A	7A	10A		+5.01V~+5.05V	50mV	±1%	80%
	+12V	0A	8A	10A		+11.4V~+13.2V	120mV	±5%	
SNP-Z101	+5V	0A	11.5A	15A		+5.01V~+5.05V	50mV	±1%	80%
	+12V	0A	3A	5A		+11.4V~+12.6V	100mV	±5%	
	-12V	0A	0.5A			-11.4V~-12.6V	100mV	±5%	
SNP-Z10D	+3.3V	0A	10A	15A		+3.26V~+3.30V	50mV	±1%	78%
	+5V	0A	8A	15A		+4.75V~+5.25V	50mV	±5%	
	+12V	0A	0.5A			+11.4V~+12.6V	100mV	±5%	
SNP-Z106-M	+5V	0A	20A	26A		+4.95V~+5.05V	50mV	±1%	80%
SNP-Z107-M	+12V	0A	9A	11A		+11.88V~+12.12V	100mV	±1%	85%
SNP-Z108-M	+15V	0A	7A	8.7A		+14.85V~+15.15V	100mV	±1%	80%
SNP-Z109-M	+24V	0A	4.5A	5.4A		+23.76V~+24.24V	100mV	±1%	80%
SNP-Z10H-M	+28V	0A	3.8A	4.65A		+27.8V~+28.2V	100mV	±1%	85%
SNP-Z10T-M	+48V	0A	2.1A	2.7A		+47.8V~+48.2V	150mV	±1%	80%
SNP-Z101-M	+5V	0.5A	10A	15A		+5.01V~+5.05V	50mV	±1%	80%
	+12V	0.05A	3A	4.1A		+11.4V~+12.6V	120mV	±5%	
	-12V	0A	0.8A	1.1A		-11.4V~-12.6V	120mV	±5%	
SNP-Z104-M	+5V	0.5A	10A	15A		+5.01V~+5.05V	50mV	±1%	80%
	+15V	0.05A	2.5A	4.1A		+14.25V~+15.75V	150mV	±5%	
	-15V	0A	0.8A	1.1A		-14.25V~-15.75V	150mV	±5%	
SNP-Z10K-M	+5V	0.5A	2.5A	4A		+5.01V~+5.05V	50mV	±1%	80%
	+12V	0A	0.7A	1A		+11.4V~+12.6V	120mV	±5%	
	+24V	0.05A	2.8A	4A		+22.8V~+25.2V	240mV	±5%	

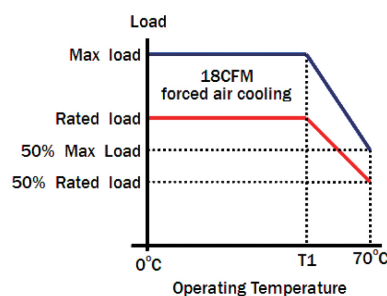
### Notes

- All specifications without special notices are defined at nominal line, rated load and 25°C.
- Models with suffix "-M" are only for medical use; otherwise are only for ITE use.
- Initial accuracy is set at 60% rated load and 115VAC input.
- Peak load can last 10 sec with 10% duty cycle and average power < rated load.
- Ripple & Noise is defined with 15MHz BWL oscilloscope and 1X probe with 0.47uF output capacitor. An extra 4.7uF capacitor for medical models and 22uF for SNP-Z10B/Z106 is required
- 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.

### Max Load Fan Location



### Power Derating Curve\*



### Notes

- T1=40°C for SNP-Z106-M, and 50°C for other models.
- SNP-Z106/8/T/1/3/D can not work above T1. These models do not have high temperature derating.

## General Specifications

– Input & Output –		– EMC –	
Input voltage range	90VAC to 264VAC	Emission	FCC/CISPR, level B
Label voltage	100VAC to 250VAC	Voltage flicker	EN61000-3-3 (Medical models)
Nominal line voltage	115VAC/230VAC	Harmonic currents	EN61000-3-2, Class D
Input frequency range	47Hz to 63Hz	ESD	EN61000-4-2, criterion A
Inrush current*	<30A at 115VAC, <60A at 230VAC		6kV contact, 8kV air discharge
Line regulation	<±1%	Radiated immunity	EN61000-4-3
Hold-up time	16ms typ. (ITE models) 20ms typ. (Medical models)	EFT/Burst	10V/M with 80% AM, criterion A
		Surge	EN61000-4-4, 2kV, criterion A
		Conducted immunity	EN61000-4-5, 1kV L-L, 2kV L-E, criterion A
		Voltage dips	EN61000-4-6, 3V with 80% AM, criterion A
			30% dips 10ms, criterion A
			60% dips 100ms, criterion C
			95% dips 5000ms, criterion C
– Protection –		– Safety –	
Over Voltage*	Latch-off	Approvals	60950-1, 2 <sup>nd</sup> edition (TUV, UL, CSA)
Over Load/Short	Auto-recovery		60601-1, 2 <sup>nd</sup> edition (TUV, UL, CSA)
			CB Report, CE Mark
– Environmental –			
Operating temperature	Refer to Power Derating Curve		
Cooling	Convection for rated load 18CFM for max load		
Power derating	Refer to Power Derating Curve		
Storage temperature	-40°C to +85°C		
Relative humidity	5% to 95% RH, non-condensing		
Operating altitude	0 to 2000m		

### Notes

- All specifications without special notices are defined at nominal line, rated load and 25°C.
- Inrush current is defined at 25°C cold start and EMI capacitors are excluded.
- Over voltage protection mode is defined at 60% rated load.
- All specifications subject to change without notice.

## Output Pin

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(-M)	+5V	+5V	+5V	GND	GND	GND	GND	+12V	-12V	
SNP-Z104-M	+5V	+5V	+5V	GND	GND	GND	GND	+15V	-15V	
SNP-Z10K-M	+12V	+24V	GND	GND	GND	GND	+5V	+5V	+5V	
SNP-Z106(-M)	+5V	+5V	+5V	+5V	GND	GND	GND	GND	GND	
SNP-Z103	+12V	+12V	GND	GND	GND	GND	+5V	+5V		
Other models	+V	+V	+V	GND	GND	GND				

## Connector type\*

- TB1 AC input : Molex 5277-02A
- TB2 DC output : Terminal Blocks (SNP-Z10B)  
: Molex 5273-10A (SNP-Z10D)  
: Molex 5273-08A (SNP-Z103/Z106(-M))  
: Molex 5273-06A (other single output models)  
: Molex 5273-09A (other multiple output models)
- TB3 Remote sense : Molex 5045-02A (single output models)
- TB3 LED : 5045-02A (SNP-Z103)
- TB3 FAN : 5045-02A (other models)
- TB4 FAN1 : 5045-02A (SNP-Z103)
- TB5 FAN2 : 5045-02A (SNP-Z103)

## Dimensions\*

- WxLxH : 3" x 5" x 1.18"/1.26"  
76.2 x 127 x 30/32 (mm)

## Packing

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

## Notes

- For all connectors equivalent types from other vendors could be used.
- Fan output is +12V with max 0.2A.
- Product height is 30mm for single output models, and 32mm for other models.
- Dimensions in left graph are shown in mm.
- Tolerance for dimension is ±0.4mm.
- This product is RoHS compliant.

