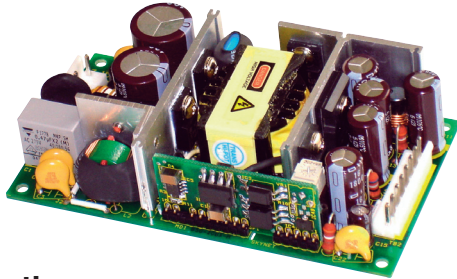


# SNP-Z08 Series

**Rated 85W**  
**Peak 135W**



## Features

- 2.5" x 4.5" footprint
- Compact Size with only 1.18" Height
- ITE & Medical Dual Safety Approvals



## Model Selection

Model No.	Output Rail	Load				Initial Accuracy*	Ripple & Noise*	Load Regulation	Efficiency
		Min	Rated	Max*	Peak*				
SNP-Z086*	+5V	0A	15A			+4.95V~+5.05V	1%	±1%	81%
SNP-Z087-1	+12V	0A	7A		11A	+11.88V~+12.12V	1%	±1%	87%
SNP-Z089-1	+24V	0A	3.6A		5.6A	+23.75V~+24.24V	1%	±1%	86%
SNP-Z08T	+48V	0A	1.88A		2.8A	+47.6V~+48.4V	1%	±1%	87%
SNP-Z087	+5V	0A	0.5A			+4.75V~+5.25V	1%	±1%	82%
	+12V	0A	7A		11A	+11.88V~+12.12V	1%	±1%	
SNP-Z089	+5V	0A	0.5A			+4.75V~+5.25V	1%	±1%	85%
	+24V	0A	3.6A		5.6A	+23.75V~+24.24V	1%	±1%	
SNP-Z083	+5V	0A	6A	8A	15A	+4.9V~+5.1V	1%	±3%	84%
	+12V	0A	4A	6A	10A	+11.4V~+12.6V	1%	±3%	
SNP-Z081	+5V	0A	6A	8A	15A	+4.9V~+5.1V	1%	±3%	84%
	+12V	0A	4A	6A	10A	+11.4V~+12.6V	1%	±3%	
	-12V	0A	0.5A			-11.4V~-12.6V	1%	±5%	
SNP-Z08F	+5V	0A	6A	8A	15A	+4.9V~+5.1V	1%	±3%	85%
	+12V	0A	0.5A			+11.4V~+12.6V	1%	±5%	
	+24V	0A	2A	2.5A	5A	+22.8V~+25.2V	1%	±3%	

## General Specifications

– Input & Output –		– EMC –	
Input voltage range	90VAC to 264VAC	Emission	FCC/CISPR, level B
Label voltage	100VAC to 240VAC	Harmonic currents	EN61000-3-2, class A
Nominal line voltage	115VAC / 230VAC	ESD	EN61000-4-2, criterion A
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%		10V/M with 80% AM, criterion A
Hold-up time	16ms typ.	EFT/Burst	EN61000-4-4, 4kV, criterion A
		Surge	EN61000-4-5, 1kV L-L, 2kV L-E, criterion A
		Conducted immunity	EN61000-4-6, 10V with 80% AM, criterion A
		MS	EN61000-4-8, 3A/m, criterion A
		Voltage dips	EN61000-4-11
			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	0°C to +70°C		
Cooling	Convection cooling		
Power derating	Refer to Power Derating Curve		
Storage temperature	-40°C to +75°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.
- Initial output voltage is set at 60% rated load and 115VAC input.
- For SNP-Z081 and SNP-Z083, max combination load of +5V and +12V is 78W/continuous and 135W/peak.
- For SNP-Z08F, max combination load of +5V and +24V is 78W/continuous and 130W/peak.
- SNP-Z086 is only for medical use.
- Peak load can last 8 sec with 10% duty cycle and average power < rated load.
- Inrush current is defined at 25°C cold start and EMI capacitors are excluded.
- Over voltage protection mode is defined at 60% rated load.
- Ripple & Noise is defined with 15MHz BWL oscilloscope and 1X probe with 0.47uF output capacitor for each output.
- 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-Z083	+12V	+12V	GND	GND	GND	+5V	+5V	NC
SNP-Z081	+12V	+12V	GND	GND	GND	+5V	+5V	-12V
SNP-Z08F	+24V	+24V	GND	GND	GND	+5V	+5V	+12V
SNP-Z086	GND	GND	GND	GND	+5V	+5V	+5V	+5V
SNP-Z087-1	GND	GND	GND	+12V	+12V	+12V	NC	
SNP-Z089-1	GND	GND	GND	+24V	+24V	+24V	NC	
SNP-Z08T	GND	GND	GND	+48V	+48V	+48V	NC	
SNP-Z087	GND	GND	GND	+12V	+12V	+12V	+5V	
SNP-Z089	GND	GND	GND	+12V	+12V	+12V	+5V	

## Connector type\*

- TB1 AC input : JST B2P3-VH
- TB2 DC output : JST B8P-VH (SNP-Z086/3/1/F)  
: JST B7P-VH (other models)

## Dimensions

- WxLxH : 2.5" x 4.5" x 1.18"  
63.5 x 114.3 x 30 (mm)

## Packing

- Net weight : 235g approx./unit
- Carton size (mm) : 447(L) x 300(W) x 301(H)
- Quantity : 60 units / carton
- Gross weight : 16.5kg approx./carton

## Notes

- For all connectors equivalent types from other vendors could be used.
- Dimensions in left graph are shown in mm.
- Tolerance for dimension is  $\pm 0.4$ mm.
- This product is RoHS compliant.

## Power Derating Curve

