

# SNP-Z08 Series

80 W AC/DC Switch Mode Power Supplies – Open Frame

CoolPower  
Solutions

- Only 1.18 inch height
- With ITE & Medical safety
- Operation from 0°C to 70°C by convection
- Efficiency between 81% to 87%



## Electrical specifications

Input	Voltage	90-264 VAC
	Frequency	47-63 Hz
	Inrush Current	< 60 A at 230 VAC, cold start, 25°C
Output	Output Power	85 W, Peak 135 W
	Voltage (VDC)	See table below
	Current (A) max.	See table below
	Efficiency	81%~87% depends on models
	Hold-up Time	16 ms typical at rated load and 115VAC
Protection	Over Load Protection	Auto recovery
	Over Voltage Protection	Latch off
	Short Circuit Protection	Auto recovery
Environment	Operating Temperature	0°C ... +70°C (derating: 2.5% / °C > 50°C)
	Storage Temperature	-40°C ... +85°C
	Humidity	5% to 90% RH, non-condensing
Physical	Dimension (L x W x H)	63.5 x 114.3 x 30 mm
	Weight	235 g
	Cooling	Convection cooling
	Connections	AC input : JST B2P3-VH or equivalent DC output : JST B6P-VH or B8P-VH or equivalent
Safety & EMC	EMI	FCC "B" EN55022"B", EN55011"B"
	EMS	EN61000-4-2,-3,-4,-5,-6,-8,-11
	Safety Approvals	UL 60950-1, UL 60601-1 CSA C22.2 No. 60950-1, 601.1 EN 60950-1, EN 60601-1

## Applications

Suitable for medical dental, laboratory products, pumps, monitors, sleep apnea device and many other uses.

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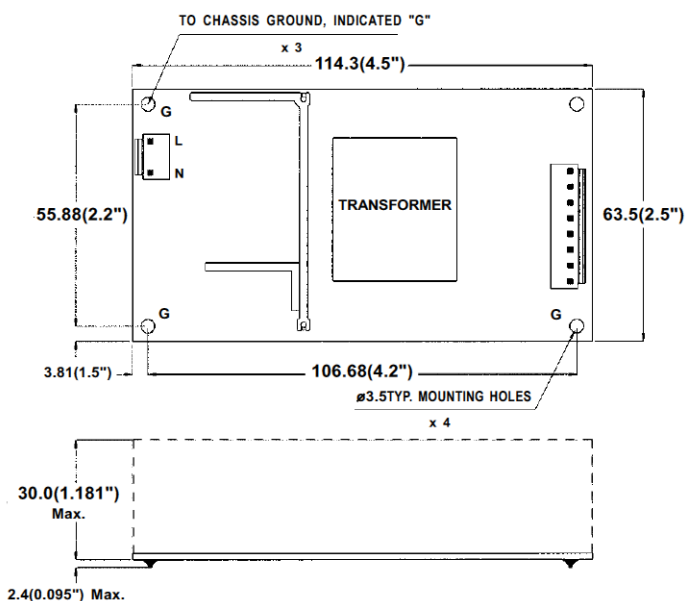
## Models

Model	Output	Load				Initial accuracy*	Ripple Noise	Line Reg.	Load Reg.	Efficiency Typical
		Min	Rated	Max	Peak					
SNP-Y081	+5 V	0 A	6.0 A	8.0 A	15.0 A	+4.9V~-+5.1V	1%	±1%	±3%	84%
	+12 V	0 A	4.0 A	6.0 A	10.0 A	+11.4V~-+12.6V	1%	±1%	±3%	
	-12 V	0 A	0.5 A			-11.4V~-12.6V	1%	±1%	±5%	
SNP-Y083	+5 V	0 A	6.0 A	8.0 A	15.0 A	+4.9V~-+5.1V	1%	±1%	±3%	84%
	+12 V	0 A	4.0 A	6.0 A	10.0 A	+11.4V~-+12.6V	1%	±1%	±3%	
SNP-Y08F	+5 V	0 A	6.0 A	8.0 A	15.0 A	+4.9V~-+5.1V	1%	±1%	±3%	85%
	+24 V	0 A	2.0 A	3.0 A	5.0 A	+22.8V~-+25.2V	1%	±1%	±3%	
	+12 V	0 A	0.5 A			+11.4V~-+12.6V	1%	±1%	±5%	
SNP-Y086	+5 V	0 A	15.0 A			+4.95V~-+5.05V	1%	±1%	±1%	81%
SNP-Y087	+12 V	0 A	6.5 A		11.0 A	+11.88V~-+12.12V	1%	±1%	±1%	82%
	+5 V	0 A	0.5 A			+4.75V~-+5.25V	1%	±1%	±1%	
SNP-Y087-1	+12 V	0 A	7.0 A		11.0 A	+14.88V~-+12.12V	1%	±1%	±1%	83%
SNP-Y089	+24 V	0 A	3.6 A		5.6 A	+23.75V~-+24.24V	1%	±1%	±1%	85%
	+5 V	0 A	0.5 A			+4.75V~-+5.25V	1%	±1%	±1%	
SNP-Y089-1	+24 V	0 A	3.75 A		5.6 A	+23.75V~-+24.24V	1%	±1%	±1%	86%
SNP-Y08T	+48 V	0 A	1.88 A		2.8 A	+47.6V~-+48.4V	1%	±1%	±1%	87%

## Notes

1. At peak load, the output can last for 8 seconds without shut down.
2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range at rated load.
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 drop down to regulation limit at rated load and nominal line.
7. The efficiency is measured at nominal line and rated load.
8. SNP-Z086 is for medical use only.

## Dimensions



## Output Pin assignment:

Pin No.	1	2	3	4	5	6	7	8
SNP-Y081	+12V	+12V	GND	GND	GND	+5V	+5V	-12V
SNP-Y083	+12V	+12V	GND	GND	GND	+5V	+5V	NC
SNP-Y08F	+24V	+24V	GND	GND	GND	+5V	+5V	+12V
SNP-Y086	GND	GND	GND	GND	+5V	+5V	+5V	+5V
SNP-Y087	GND	GND	GND	+12V	+12V	+12V	+5V	
SNP-Y087-1	GND	GND	GND	+12V	+12V	+12V	NC	
SNP-Y089	GND	GND	GND	+24V	+24V	+24V	+5V	
SNP-Y089-1	GND	GND	GND	+24V	+24V	+24V	NC	
SNP-Y08T	GND	GND	GND	+48V	+48V	+48V	NC	