



Features

- 3" x 5" footprint
- Compact Size with only 1.18" Height
- ITE & Medical Dual Safety Compliant
- Cost effective



Model Selection

Model No.	Output Rail	Load				Initial Accuracy*	Ripple & Noise*	Load Regulation	Efficiency
		Min	Rated	Max*	Peak*				
SNP-Y096	+5V	0A	17A			+4.97V~+5.03V	1%	±1%	83%
SNP-Y09T	+48V	0A	1.85A			+47.6V~+48.4V	1%	±1%	86%
SNP-Y097	+12V	0A	6.6A		11A	+11.88V~+12.12V	1%	±1%	82%
	+5V	0A	1A			+4.75V~+5.25V	1%	±1%	
SNP-Y098	+15V	0A	5.6A		9A	+14.85V~+15.15V	1%	±1%	82%
	+5V	0A	1A			+4.75V~+5.25V	1%	±1%	
SNP-Y099	+24V	0A	3.5A		5.5A	+23.76V~+24.24V	1%	±1%	84%
	+5V	0A	1A			+4.75V~+5.25V	1%	±1%	
SNP-Y090	+5V	0A	5A	8A	15A	+4.9V~+5.1V	1%	±3%	80%
	+12V	0A	4A	6A	10A	+11.4V~+12.6V	1%	±3%	
	-12V	0A	0.5A			-11.4V~-12.6V	1%	±3%	
	-5V	0A	0.5A			-4.75~-5.25V	1%	±5%	
SNP-Y09E*	+3.3V	0A	7A	8A	10A	+3.2V~+3.4V	50mV	±3%	80%
	+5V	0A	5A	8A	12A	+5.08V~-+5.10V	1%	±3%	
	+12V	0A	2.5A			+11.4V~+12.6V	1%	±5%	
	-12V	0A	0.5A			-11.4V~-12.6V	1%	±5%	

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	20ms typ.	EFT/Burst	EN61000-4-4, 4kV, criterion A
		Surge	EN61000-4-5, 1kV L-L, 2kV L-E, criterion A
— Protection —		Conducted immunity	EN61000-4-6, 10V with 80% AM, criterion A
Over Voltage*	Latch-off	MS	EN61000-4-8, 3A/m, criterion A
Over Load / Short	Auto-recovery	Voltage dips	EN61000-4-11
			30% dips 10ms, criterion A
— Environmental —			60% dips 100ms, criterion C
Operating temperature	0°C to +70°C		95% dips 5000ms, criterion C
Cooling	Convection cooling		
Power derating	Refer to Power Derating Curve	— Safety —	
Storage temperature	-40°C to +75°C	Approvals	60950-1 compliant
Relative humidity	10% to 90% RH, non-condensing		60601-1 compliant
Operating altitude	0 to 2000m		CE Mark

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-Y090, max combination load of +5V and +12V is 75W/continuous and 130W/peak.
- For SNP-Y09E, max combination load for all outputs is 85W/continuous and 16CFM forced air is required for any output to exceed rated load. Peak load of +3.3V and +5V can only be used alternatively.
- Peak load can last 2 sec for SNP-Y09E and 8 sec for other models, 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 for formal specification.

Output Pin

PIN NO.	1	2	3	4	5	6	7	8	9	10
SNP-Y090	+5V	+5V	+5V	GND	GND	GND	+12V	+12V	-12V	-5V
SNP-Y09E	+3.3V	+3.3V	GND	GND	GND	GND	+5V	+5V	+12V	-12V
SNP-Y096	GND	GND	GND	GND	+5V	+5V	+5V	+5V		
SNP-Y097	+12V	+12V	+12V	GND	GND	GND	GND	+5V		
SNP-Y098	+15V	+15V	+15V	GND	GND	GND	GND	+5V		
SNP-Y099	+24V	+24V	+24V	GND	GND	GND	GND	+5V		
SNP-Y09T	+48V	+48V	+48V	GND	GND	GND	GND	NC		

Connector type*

- TB1 AC input : Molex 5277-02A
- TB2 DC output : Molex 5273-10A (SNP-Y090/E)
- : Molex 5273-08A (other models)
- TB3 LED : Molex 5045-02A (SNP-Y096/7/8/9/T)
- TB4 FAN : Molex 5045-02A (SNP-Y097/8/9/T)
- TB5 Remote sense : Molex 5045-02A (SNP-Y096)

Dimensions*

- WxLxH : 3" x 5" x 1.18"~1.3"
76.2 x 127 x 30~33 (mm)

Packing

- Net weight : 245g approx./unit
- Carton size (mm) : 397(L) x 339(W) x 327(H)
- Quantity : 48 units / carton
- Gross weight : 14.2kg approx./carton

Notes

- For all connectors, equivalent types from other vendors could be used.
- Fan output is 24V for SNP-Y099, and +12V for other models.
- Max fan output current is 0.1A in SNP-Y098, 0.2A in SNP-Y099, and 0.25A in other models.
- Product height is 31mm for SNP-Y097/Y090, 33mm for SNP-Y09E, and 30mm for other models.
- Dimensions in left graph are shown in mm.
- Tolerance for dimension is ± 0.4 mm.
- This product is RoHS compliant.

Power Derating Curve

