



## Features

- 2" x 4" footprint
- Compact Size with only 1.18" Height
- ITE & Medical Dual Safety Approvals
- Cost effective



## Model Selection

Model No.	Output Rail	Load				Initial Accuracy*	Ripple & Noise*	Load Regulation	Efficiency
		Min	Rated	Max*	Peak*				
SNP-Y046	+5V	0A	7A		10A	+4.95V~+5.05V	1%	±1%	78%
SNP-Y047-1	+12V	0.1A	3.5A		5A	+11.88V~+12.12V	1%	±1%	82%
SNP-Y048-1	+15V	0.1A	2.6A		4A	+14.85V~+15.15V	1%	±1%	81%
SNP-Y049-1	+24V	0.1A	1.9A		2.8A	+23.76V~+24.24V	1%	±1%	84%
SNP-Y04T	+48V	0A	0.9A		1.35A	+47.6V~+48.4V	1%	±1%	85%
SNP-Y047	+5V	0A	0.5A			+4.75V~+5.25V	1%	±1%	81%
	+12V	0.1A	3.3A		5A	+11.88V~+12.12V	1%	±1%	
SNP-Y048	+5V	0A	0.5A			+4.75V~+5.25V	1%	±1%	81%
	+15V	0.1A	2.6A		4A	+14.85V~+15.15V	1%	±1%	
SNP-Y049	+5V	0A	0.5A			+4.75V~+5.25V	1%	±1%	83%
	+24V	0A	1.8A		2.8A	+23.76V~+24.24V	1%	±1%	
SNP-Y043	+5V	0A	3A	4A	5A	+4.9V~+5.1V	1%	±3%	80%
	+12V	0A	2A	3A	4A	+11.4V~+12.6V	1%	±3%	
SNP-Y041	+5V	0A	3A	4A	5A	+4.9V~+5.1V	1%	±3%	80%
	+12V	0A	2A	3A	4A	+11.4V~+12.6V	1%	±3%	
	-12V	0A	0.3A			-11.4V~-12.6V	1%	±5%	
SNP-Y04F	+5V	0A	3A	4A	6A	+4.95V~+5.05V	1%	±3%	81%
	+12V	0A	0.3A			+22.8V~+25.2V	1%	±5%	
	+24V	0A	1A	1.5A	2.4A	+11.4V~+12.6V	1%	±3%	
SNP-Y04D	+3.3V	0A	4A	5A		+3.26V~+3.33V	50mV	±3%	75%
	+5V	0A	3A	4A		+4.75V~+5.25V	1%	±3%	
	+12V	0A	0.3A			+11.4V~+12.6V	1%	±5%	

## General Specifications

<b>– Input &amp; Output –</b>		<b>– EMC –</b>	
Input voltage range	90VAC to 264VAC	Emission	FCC/CISPR, level B
Label voltage	100VAC to 240VAC	ESD	EN61000-4-2, criterion A
Nominal line voltage	115VAC / 230VAC		4kV contact, 8kV air discharge
Input frequency range	47Hz to 63Hz	Radiated immunity	EN61000-4-3
Inrush current*	<30A at 115VAC, <60A at 230VAC		10V/M with 80% AM, criterion A
Line regulation	<±1%	EFT/Burst	EN61000-4-4, 4kV, criterion A
Hold-up time	14ms typ.	Surge	EN61000-4-5, 1kV L-L, 2kV L-E, criterion A
		Conducted immunity	EN61000-4-6, 10V with 80% AM, criterion A
<b>– Protection –</b>		MS	EN61000-4-8, 3A/m, criterion A
Over Voltage*	Latch-off	Voltage dips	EN61000-4-11
Over Load / Short	Auto-recovery		30% dips 10ms, criterion A
			60% dips 100ms, criterion C
			95% dips 5000ms, criterion C
<b>– Environmental –</b>		<b>– Safety –</b>	
Operating temperature	0°C to +70°C	Approvals	60950-1, 2 <sup>nd</sup> edition (TUV, UL, CSA)
Cooling	Convection cooling		60601-1, 2 <sup>nd</sup> edition (TUV, UL, CSA)
Power derating	Refer to Power Derating Curve		CB Report, CE Mark
Storage temperature	-40°C to +75°C		
Relative humidity	10% to 90% RH, non-condensing		
Operating altitude	0 to 3000m		

## Notes

- All specifications without special notices are defined at nominal line, rated load and 25°C.
- Initial accuracy is set at 60% rated load and 115VAC input
- For SNP-Y04D, max combination load of +3.3V and +5V is 28W/continuous.
- For SNP-Y041/3, max combination load of +5V and +12V is 39W/continuous and 60W/peak.
- For SNP-Y04F, max combination load of +5V and +24V is 39W/continuous and 60W/peak.
- 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
SNP-Y043	+5V	+5V	GND	GND	+12V	NC
SNP-Y041	+5V	+5V	GND	GND	+12V	-12V
SNP-Y04F	+5V	+5V	GND	GND	+24V	-12V
SNP-Y04D	+3.3V	+3.3V	GND	GND	+5V	+12V
SNP-Y047	+12V	+12V	GND	GND	+5V	
SNP-Y048	+15V	+15V	GND	GND	+5V	
SNP-Y049	+24V	+24V	GND	GND	+5V	
SNP-Y046	+5V	+5V	GND	GND		
SNP-Y047-1	+12V	+12V	GND	GND		
SNP-Y048-1	+15V	+15V	GND	GND		
SNP-Y049-1	+24V	+24V <td GND	GND			
SNP-Y04T	+48V	+48V	GND	GND		

## Connector type\*

- TB1 AC input : JST B2P3-VH
- TB2 DC output : JST-B5-VH (SNP-Y047/8/9)
- : JST-B6P-VH (SNP-Y041/3/F)
- : JST-B4P-VH (other models)

## Dimensions

- WxLxH : 2" x 4" x 1.18"  
50.8 x 101.6 x 30 (mm)

## Packing

- Net weight : 127g approx./unit
- Carton size (mm) : 482(L) x 374(W) x 277(H)
- Quantity : 80 units / carton
- Gross weight : 12.6kg 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.

## Power Derating Curve

