

General Purpose





General Specifications:

Input voltage	
Input frequency	
Inrush current	< 30A at 115VAC
(cold start at 25°C)	or < 60A at 230VAC
Efficiency	. 76%~85% depends on models
	at rated load and 115VAC
Hold up time	
Earth leakage current	< 300uA
Over load protection	auto recovery
Short circuit protection	auto recovery

Mechanical Specifications:



Features:

- Only 1.1 inch height
- 4.7 Watt per cubic inch
- With ITE & Medical safety
- Efficiency between 76% to 85%
- Operation from 0°C to 70°C by convection
- Single side PCB for low assembly cost

Applications:

- For medical dental, pumps, monitors, sleep apnea de-• vice, and many other uses.
- For ITE audio equipment, telecommunication, network, • IPC, instrument equipment, and other uses.

Over voltage protection	latch off
Operating temperature	
	derating: $2.5\% / ^{\circ}C > 50^{\circ}C$
Cooling	free air convection
Storage temperature	40°C to +85°C
EMI	
	EN55022"B", EN55011"B"
EMS	EN61000-4-2,-3,-4,-5,-6,-8,-11
Safety	UL/CSA/EN 60950-1, 2 nd edition
ANSI/AAMI/	$CSA/EN 60601-1 3^{rd}$ edition + A1

Notes:

TO CHASSIS GROUND,INDICATED"A" X2 101.6 (4") TRANSFORMER TB2 (2") 40	1. 2. 3. 4.	Size: 2" x 4" x 1.18" Mounting Hole 44.5 x 95.3 (m Connectors AC input: JS' DC output: JS' Output Pin ass PIN NO. SNP-Y041 SNP-Y045 SNP-Y047 SNP-Y047.1
x4	5.	SNP-Y048-1 SNP-Y049-1 SNP-Y049-1 SNP-Y047 SNP-Y04D Packing Net weight: 12 Gross weight: Carton size (m

Mounting Hol	e:						
44.5 x 95.3 (m	ım)						
Connectors							
AC input: JST B2P3-VH or equivalent							
DC output: JST B4P-VH or equivalent for single							
JST B6P-VH or equivalent for multiple outputs							
Output Pin assignment							
PIN NO.	1	2	3	4	5	6	
SNP-Y041	+5V	+5V	GND	GND	+12V	-12V	
SNP-Y043	+5V	+5V	GND	GND	+12V	NC	
SNP-Y04F	+5V	+5V	GND	GND	+24V	+12V	
SNP-Y046	+5V	+5V	GND	GND			
SNP-Y047	+12V	+12V	GND	GND	+5V	NC	
SNP-Y047-1	+12V	+12V	GND	GND			
SNP-Y048	+15V	+15V	GND	GND	+5V	NC	
SNP-Y048-1	+15V	+15V	GND	GND			

SNP-Y049 +24V +24V GND GND

SNP-Y049-1 +24V +24V GND GND SNP-Y04T +48V +48V GND GND

SNP-Y04D +3.3V +3.3V GND GND

Net weight: 127 g approx. / unit Gross weight: 12.6 kg approx. / carton, 80 units / carton Carton size (mm): 382 (L) x 374 (W) x 277 (H)

10 years Warranty (contact Skynet's Distributors for details)

+5V NC

+5V +12V



Output Specifications:

MODEL	OUTPUT	LOAD		VOLTAGE	RIPPLE	LINE	LOAD	EFFICIENCY		
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	NOISE	REG.	REG.	TYPICAL
SNP-Y041	+5V +12V -12V	0A 0A 0A	3A 2A 0.3A	4A 3A	5A 4A	+4.9V~+5.1V +11.4V~+12.6V -11.4V~-12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%	80%
SNP-Y043	+5V +12V	0A 0A	3A 2.3A	4A 3.3A	5A 4A	+4.9V~+5.1V +11.4V~+12.6V	1% 1%	±1% ±1%	±3% ±3%	80%
SNP-Y04F	+5V +24V +12V	0A 0A 0A	3A 1A 0.3A	4A 1.5A	6A 2.4A	+4.95V~+5.05V +22,8V~+25.2V +11.4V~+12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%	81%
SNP-Y046	+5V	0A	7A		10A	+4.95V~+5.05V	1%	±1%	±1%	77%
SNP-Y047	+12V +5V	0A 0A	3.3A 0.5A		5A	+11.88V~+12.12V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	80%
SNP-Y047-1	+12V	0A	3.3A		5A	+11.88V~+12.12V	1%	±1%	±1%	81%
SNP-Y048	+15V +5V	0A 0A	2.6A 0.5A		4A	+14.85V~+15.15V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	80%
SNP-Y048-1	+15V	0A	3A		4A	+14.85V~+15.15V	1%	±1%	±1%	81%
SNP-Y049	+24V +5V	0A 0A	1.7A 0.5A		2.5A	+23.75V~+24.24V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	82%
SNP-Y049-1	+24V	0A	1.9A		2.5A	+23.75V~+24.24V	1%	±1%	±1%	83%
SNP-Y04T	+48V	0A	1A		1.35A	+47.6V~+48.4V	1%	±1%	±1%	85%
SNP-Y04D	+3.3V +5V +12V	0A 0A 0A	4A 3A 0.3A		5A 4A	+3.26V~+3.33V +4.75V~+5.25V +11.40V~+12.80V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%	75%

Note:

1. At peak load, the output can last for 8 seconds without shut down.

2. The maximum combinational load of SNP-Y04D for +3.3V & +5V is 28W.

3. 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.

4. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.

5. Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load at another output set to 60% rated load.

6. 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.

7. 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.

8. The efficiency is measured at nominal line and rated load.

9. Model Selection:

SNP-Y04x is for both of ITE application and for medical application.

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Performance for SNP-Y047:

1. Switching frequency ripple



3. Output turn on wave form



5. Hold-up time



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2. Line frequency ripple



4. Output turn on wave form



6. Over voltage protection





7. +12V step response



9. EN 55011 B



8. FCC B



10. Power derating curve

