

IT & Medical Applications (Universal)



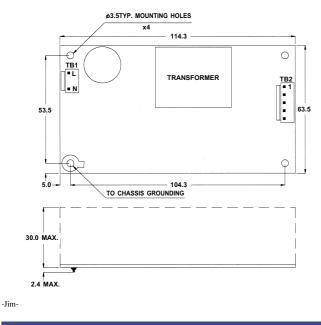
Features:

- Only 1.28 inch height
- 4.2 Watt per cubic inch
- With ITE & Medical safety
- Efficiency between 78% to 87% •
- Operation from 0°C to 70°C by convection •
- Single side PCB for low assembly cost

General Specifications:

Input voltage	90VAC to 264VAC
Input frequency	47Hz to 63Hz
Inrush current le	ss than 30A at 115VAC
les	ss than 60A at 230VAC
	cold start, 25°C
Efficiency 78%~8	87% depends on models
at 1	rated load and 115VAC
Hold up time	16mS typical
at 1	rated load and 115VAC
Earth leakage current	< 300uA
Over load protection	auto recovery

Mechanical Specifications:



Short circuit protection	auto recovery
Over voltage protection	latch off
Operating temperature	0 to 70°C convection
	derating: 2.5% / °C > 50°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 60950-1, UL 2601
	CSA 22.2 No. 60950-1, 601.1
	EN 60950-1, EN 60601-1

Notes:

- Dimensions shown in mm as left. Tolerance: + -1mm (Excluding cables). 1.
- 2
- Size: 63.5 X 114.3 X 32.4 (mm) 2.5" X 4.5" X 1.28"
- 3. Packing
- Net weight: 155 g approx. / unit Gross weight: 15 kg approx. / carton, 80units / carton Carton size (mm): 442 (L) x 370 (W) x 301 (H)
- 4. Connectors TB1-AC input : JST B3P-VH withdraw one pin or equivalent TB2-DC output : JST B4P-VH or equivalent for single output JST B6P-VH or equivalent for multiple outputs except SNP-Y06D
- 5. Output Pin assignment

PIN NO.	1	2	3	4	5	6	7	8
SNP-Y061	+5V	+5V	GND	GND	+12V	-12V		
SNP-Y06D	+3.3V	+3.3V	GND	GND	GND	+5V	+5V	+12V
SNP-Y063	+5V	+5V	GND	GND	+12V	NC		
SNP-Y066	+5V	+5V	+5V	GND	GND	GND		
SNP-Y067	+12V	+12V	GND	GND	+5V	NC		
SNP-Y067-1	+12V	+12V	GND	GND				
SNP-Y068	+15V	+15V	GND	GND	+5V	NC		
SNP-Y068-1	+15V	+15V	GND	GND				
SNP-Y069	+24V	+24V	GND	GND	+5V	NC		
SNP-Y069-1	+24V	+24V	GND	GND				
SNP-Y06T	+48V	+48V	GND	GND				
SNP-Y06B	+3.3V	+3.3V	+3.3V	GND	GND	GND		
SNP-Y06F	+5V	+5V	GND	GND	+24V	+12V		



Output Specifications:

MODEL	OUTPUT	LOAD				VOLTAGE	RIPPLE	LINE	LOAD	EFFICIENCY
NO.	RAIL	MIN.	RATED	MAX.	PEAK	ACCURACY	NOISE	REG.	REG.	TYPICAL
SNP-Y061	+5V +12V -12V	0A 0A 0A	3A 3A 0.3A	5A 4A	7A 6A	+4.95V~+5.05V +11.4V~+12.6V -11.4V~-12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%	82%
SNP-Y06D	+3.3V +5V +12V	0A 0A 0A	5A 4A 1A	7A 6A		+3.2V~+3.4V +4.75V~+5.25V +11.4V~+12.6V	50mV 1% 1%	±1% ±1% ±1%	±3% ±3% ±5%	78%
SNP-Y063	+5V +12V	0A 0A	3A 3A	5A 4A	7A 6A	+4.95V~+5.05V +11.4V~+12.6V	1% 1%	±1% ±1%	±3% ±3%	82%
SNP-Y066	+5V	0A	10A		15A	+4.95V~+5.05V	1%	±1%	±1%	80%
SNP-Y067	+12V +5V	0A 0A	4.8A 0.5A		7.5A 1A	+11.88V~+12.12V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	83%
SNP-Y067-1	+12V	0A	5A		7.5A	+11.88V~+12.12V	1%	±1%	±1%	84%
SNP-Y068	+15V +5V	0A 0A	3.8A 0.5A		6A 1A	+14.85V~+15.15V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	83%
SNP-Y068-1	+15V	0.1A	4A		6A	+14.85V~+15.15V	1%	±1%	±1%	84%
SNP-Y069	+24V +5V	0.1A 0A	2.4A 0.5A		3.8A 1A	+23.75V~+24.24V +4.75V~+5.25V	1% 1%	±1% ±1%	±1% ±1%	86%
SNP-Y069-1	+24V	0.1A	2.5A		3.8A	+23.75V~+24.24V	1%	±1%	±1%	87%
SNP-Y06T	+48V	0A	1.25A		1.9A	+47.6V~+48.4V	1%	±1%	±1%	88%
SNP-Y06B	+3.3V	0A	10A		15A	+3.26V~+3.33V	50mV	±1%	±1%	78%
SNP-Y06F	+5V +24V +12V	0A 0A 0A	3A 1.5A 0.3A	5A 2A	7A 3A	+4.90V~+5.10V +22.8V~+25.2V +11.4V~+12.6V	1% 1% 1%	±1% ±1% ±1%	±3% ±3% ±3%	83%

Note:

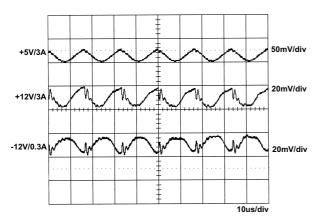
- 1. At peak load, the output can last for 8 seconds without shut down.
- 2. The maximum combinational load of SNP-Y06D for +3.3V & +5V is 38W.
- 3. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the 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.

-Jim-

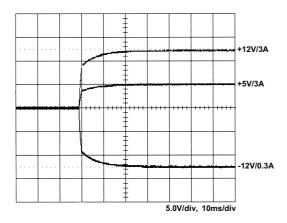


Performance for SNP-Y061:

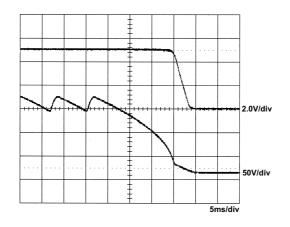
1. Switching frequency ripple



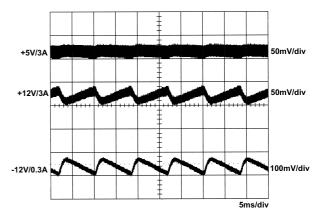
3. Output turn on wave form



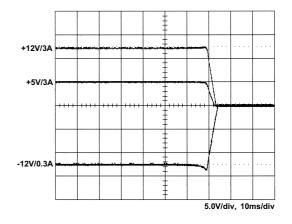
5. Hold-up time



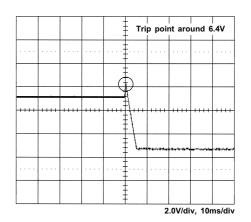
2. Line frequency ripple



4. Output turn off wave form



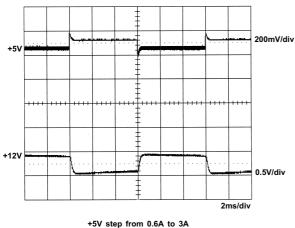
6. Over voltage protection



-Jim-

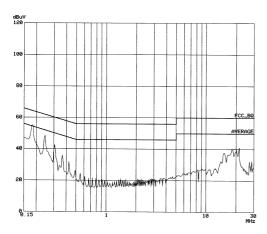


7. +5V step response

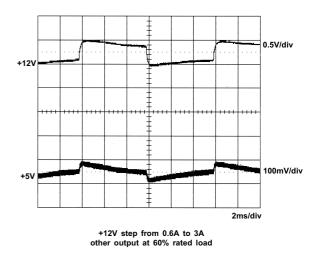


+5V step from 0.6A to 3A other output at 60% rated load

9. FCC B



8. +12V step response



10. EN 55022 B

