

### **Description:**

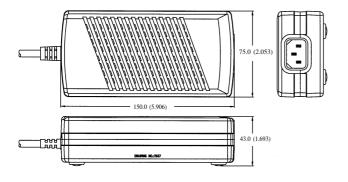
SNP-T03 / SNP-T04 series is an universal with various options of outputs in plastic box which is with color options of either black or beige. It is designed in full compliance with UL, CSA, and VDE regulations.

### **General Specification:**

Input voltage	90VAC to 270VAC
Input frequency	47Hz to 63Hz
Inrush current	less than 60A at 220VAC
	cold start, 25°C
Outputs	see output table
Efficiency	73% typical depending on model
Hold up time	>16mS
	at rated load and 115VAC
Over load protection	auto recovery

Short circuit protection	auto recovery
Operating temperature	0°C to 50°C, rated load
Cooling	Free air convection
Storage temperature	20°C to +85°C
EMI	FCC docket 20780 class "B"
	Vfg 243/1991
Safety	Meet UL 1950
	CSA 22.2 No. 234
	EN 60950

## **Mechanical Specifications:**



#### NOTE:

- 1. Dimensions shown in mm (inch) as above.
- 150 X 75 X 43mm 2. Connectors:

AC input : IEC 320/CEE 22 standard DC output : according to final spec.\*

- 3. Power on indicator
- Green light
  4. Color
- Black for both plastic box and DC output cable, black for AC inlet
- \* Options available for DC output connector if the detailed specifications can provided.

-James-

30W-40W SNP-T03 Series SNP-T04 Series

### **Output Specifications:**

MODEL	OUTPUT	LOAD			VOLTAGE	RIPPLE	LINE	LOAD
NO.	RAIL	MIN.	RATED	PEAK	ACCURACY	NOISE	REG.	REG.
30W								
SNP-T031	+5V +12V -12V	0A 0A 0A	2A 1.5A 0.3A	3A 2.4A 0.5A	+4.95V~+5.05V +11.4V~+12.6V -11.8V~-13.2V	50mV 120mV 120mV	±1% ±1% ±1%	±3% ±5% ±5%
SNP-T033	+5V +12V	0A 0A	2A 1.5A		+4.95V~+5.05V +11.4V~+12.6V	50mV 120mV	±1% ±1%	±3% ±5%
SNP-T035	+18V	0A	2A		+16.2V~+19.8V	100mV	±1%	±3%
SNP-T036	+5V	0A	5A		+4.90V~+5.10V	50mV	±1%	±7%
SNP-T037	+12V	0A	2.5A		+11.4V~+12.6V	100mV	±1%	±3%
SNP-T038	+15V	0A	2A		+14.25V~+15.75V	100mV	±1%	±3%
SNP-T039	+24V	0A	1.5A		+22.8V~+25.2V	100mV	±1%	±3%
SNP-T03M	+9V -9V	0A 0A	1.7A 1.7A		+8.91V~+9.09V -8.55V~-9.45V	90mV 90mV	±1% ±1%	±5% ±8%
SNP-T03N	+5V -5V	0.5A 0.5A	3A 3A		+4.90V~+5.20V -4.95V~-5.15V	50mV 50mV	±2% ±2%	±3% ±5%
40W	•					1		
SNP-T041	+5V +12V -12V	1A 0.1A 0A	7A 0.5A 0.1A	0.3A	+4.95V~+5.15V +11.4V~+12.6V -11V~-13.2V	70mV 50mV 50mV	±2% ±2% ±2%	±3% ±5% ±10%

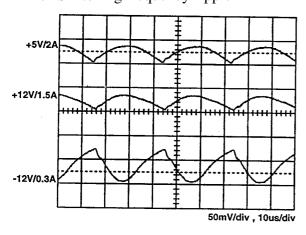
#### Note:

- 1. Each output can provide up to peak load separately when the power supply starts up. Continuous staying in more than rated load is not allowed.
- 2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- 3. Line Regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing  $\pm 40\%$  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 drops down to low limit of main output at rated load and nominal line.
- 7. Efficiency is measured at rated load, and nominal line, without output cable.

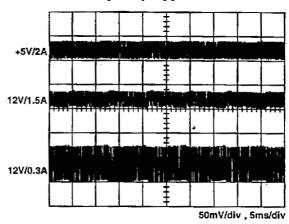
30W-40W SNP-T03 Series SNP-T04 Series

#### **Performance for SNP-T031:**

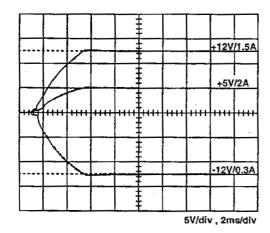
#### 1. Switching frequency ripple



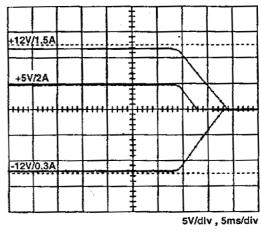
#### 2. Line Frequency ripple



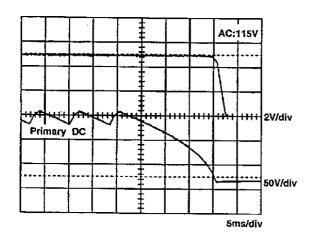
### 3. Output turn on wave form



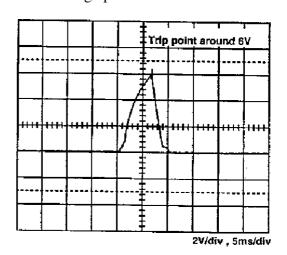
4. Output turn off wave form



#### 5. Hold-up time



6. Over voltage protection

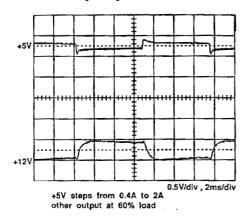


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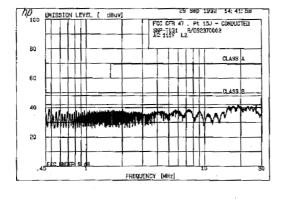


30W-40W SNP-T03 Series SNP-T04 Series

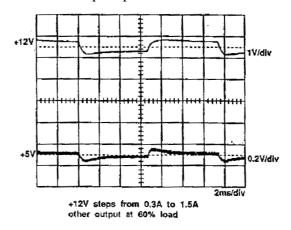
#### 7. +5V step response



#### 9. FCC B performance



#### 8. +12V step response



#### 10. VFG 243 performance

