



Switching Adapter (Universal)

30-40 W
SNP-T03 series
SNP-T04 series



Description:

SNP- T03 / SNP- T04 series is an universal input switching adapter, with various options of outputs in plastic box with color options (black or beige).

Designed in full compliance with UL, CSA, and VDE regulations.

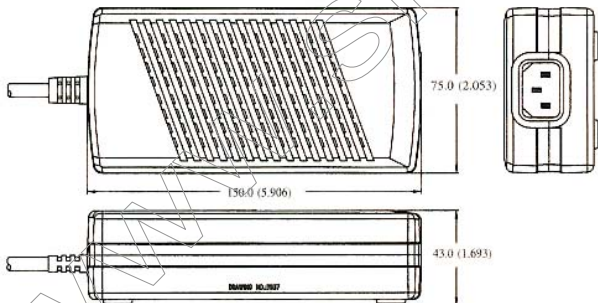


General Specifications:

Input voltage90V AC to 270V AC
 Input frequency47Hz to 63Hz
 Inrush current less than 60A at 220V AC cold start, 25°C
 Outputssee output table
 Efficiency73% typical depending on model
 Hold up time> 16mS at rated load and 115V AC
 Over load protection auto recovery

Short circuit protectionauto recovery
 Operating temperature0°C to 50°C, rated load
 Cooling free air convection
 Storage temperature-20°C to +85°C
 EMIFCC docket 20780 class "B"
 Vfg 243/1991
 Safetymeet 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 be provided.



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Output Specifications:

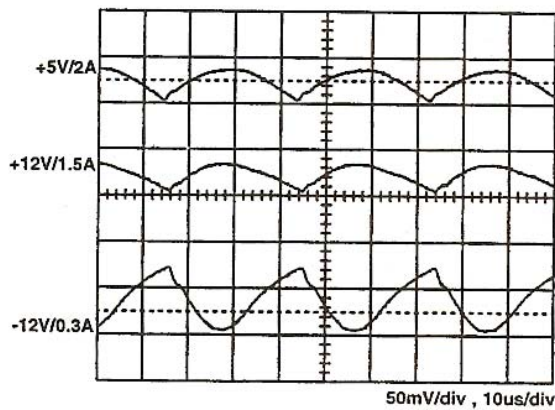
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
30W								
SNP-T031	+5V	0A	2A	3A	+4.95V~+5.05V	50mV	±1%	±3%
	+12V	0A	1.5A	2.4A	+11.4V~+12.6V	120mV	±1%	±5%
	-12V	0A	0.3A	0.5A	-11.8V~-13.2V	120mV	±1%	±5%
SNP-T033	+5V	0A	2A		+4.95V~+5.05V	50mV	±1%	±3%
	+12V	0A	1.5A		+11.4V~+12.6V	120mV	±1%	±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	0A	1.7A		+8.91V~+9.09V	90mV	±1%	±5%
	-9V	0A	1.7A		-8.55V~-9.45V	90mV	±1%	±8%
SNP-T03N	+5V	0.5A	3A		+4.90V~+5.20V	50mV	±2%	±3%
	-5V	0.5A	3A		-4.95V~-5.15V	50mV	±2%	±5%
40W								
SNP-T041	+5V	1A	7A		+4.95V~+5.15V	70mV	±2%	±3%
	+12V	0.1A	0.5A		+11.4V~+12.6V	50mV	±2%	±5%
	-12V	0A	0.1A	0.3A	-11V~-13.2V	50mV	±2%	±10%

Note:

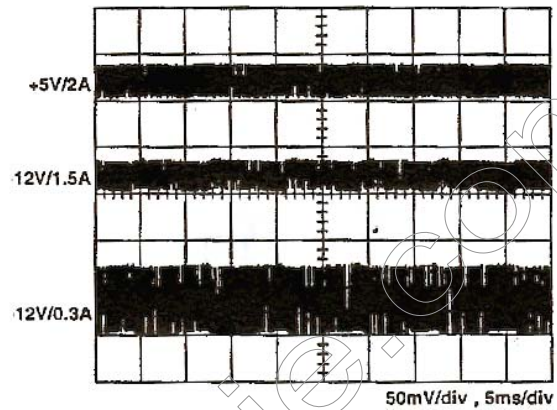
1. Each output can provide up to peak load separately when the power supply starts up. Continuous staying in more than rated load is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line Regulation is defined by changing $\pm 10\%$ of input 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.

Performance for SNP-T031:

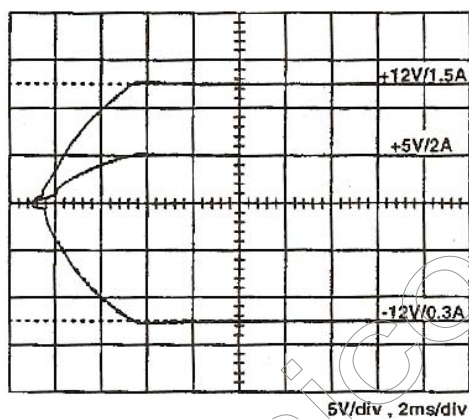
1. Switching frequency ripple



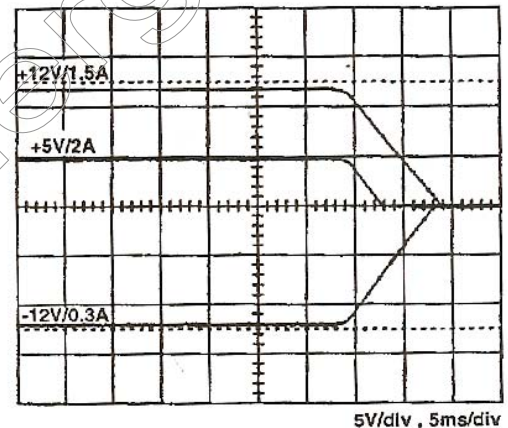
2. Line Frequency ripple



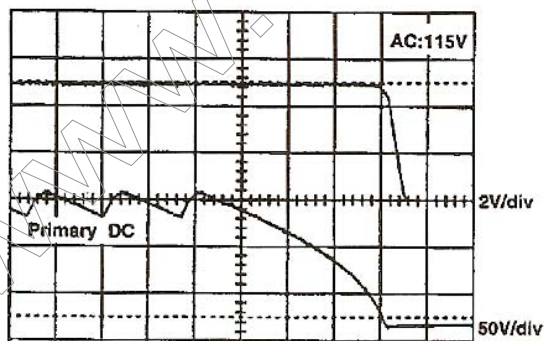
3. Output turn on wave form



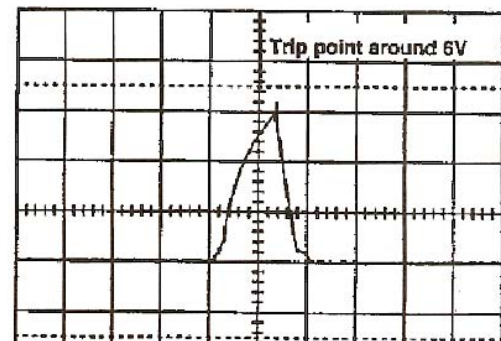
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection

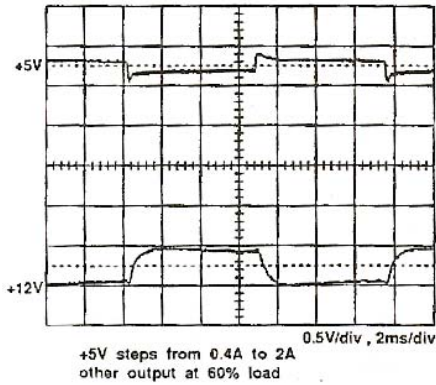




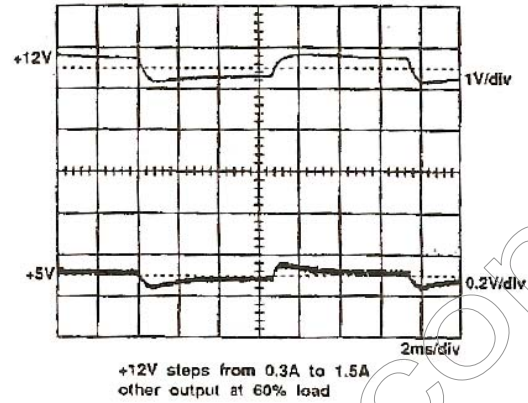
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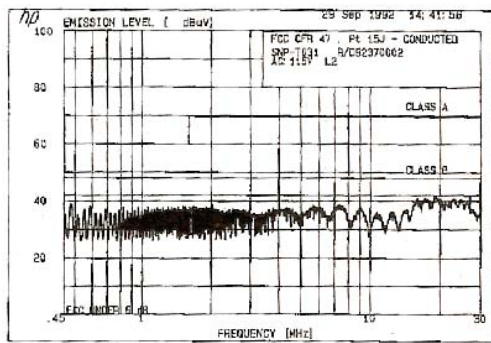
7. +5V step response



8. +12V step response



9. FCC B performance



10. VFG 243 performance

