



Switching Adapter (Universal)

20W
SNP-K02 series
SNP-K03 series



Description :

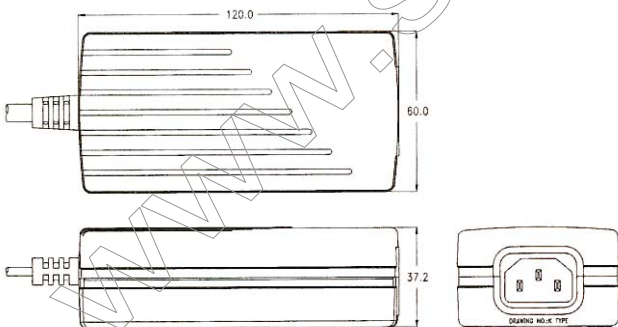
SNP-K02/ SNP-K03 series is an universal with various options of outputs in plastic box with color options (black or beige).

It is designed in full compliance with UL, CSA, and VDE regulations.

General Specifications :

Input voltage	90V AC to 264V AC	Operating temperature	0°C to 50°C
Input frequency	47Hz to 63Hz		at rated load
Inrush Current	less than 60A at 220V AC	Cooling	Free air convection
	cold start, 25°C	Storage temperature	-20°C to +55°C
Outputs	see output table	EMI	EN55022 "B"
Efficiency	73% typical,		EN61000-3-2
	depending on mode!	FCC docket 20780 class "B"	
Hold up time	> 16mS	EMS	IEC SO1-2 8KVair discharge
	at rated load and 115V AC		IEC 801-3 3V/m
Over load protection	Latch-off		IEC 801-4 1KV
Short circuit protection	Latch-off	Safety	Meet DL 1950
			CSA 22.2 No. 234
			EN 60950

Mechanical Specifications :



Note:

- Dimensions shown in mm (inch) as above.
150 X 75 X 43mm
- Connectors:
AC input : IEC 320/CEE 22 standard
DC output : according to final spec. *

* 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				
SNP-K021	+5V	0A	2A		+4.90V~+5.10V	70mV	±1%	±3%
	+12V	0A	0.2A		+11.40V~+12.60V	100mV	±1%	±3%
	-12V	0A	0.2A		-11.40V~-12.60V	100mV	±1%	±3%
SNP-K026-D	+5V	0A	3A	3.5A	+4.90V~+5.10V	50mV	±1%	±4%
SNP-K037	+12V	0A	1.5A		+11.40V~+12.60V	100mV	±1%	±5%
SNP-K038	+15V	0A	1.33A	1.7A	+14.85V~+15.15V	100mV	±1%	±2%
SNP-K039	+24V	0A	1A	1.6A	+21.60V~+26.40V	240mV	±1%	±5%

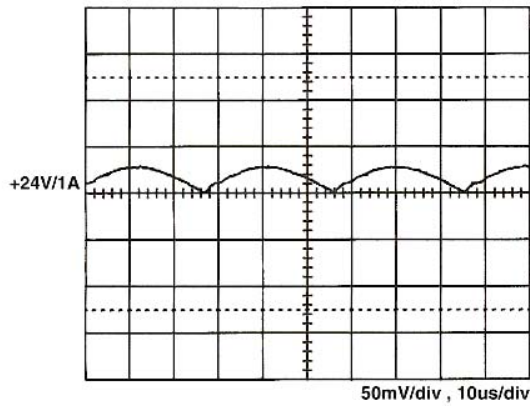
Note:

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 0.47 μ F 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.

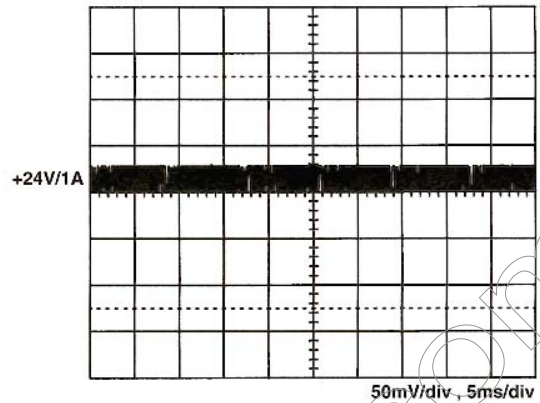


Performance for SNP-K039:

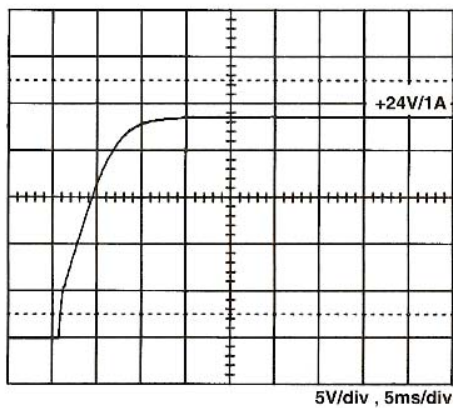
1. Switching frequency ripple



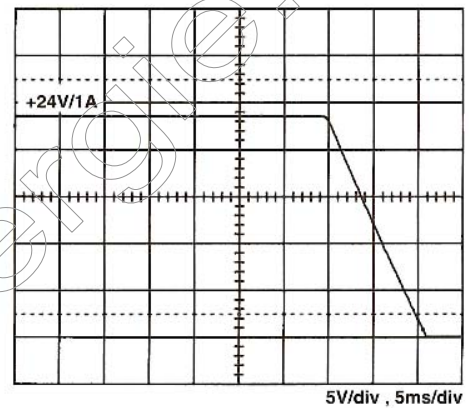
2. Line Frequency ripple



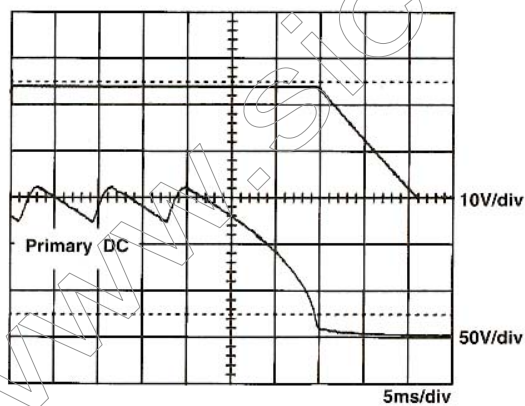
3. Output turn on wave form



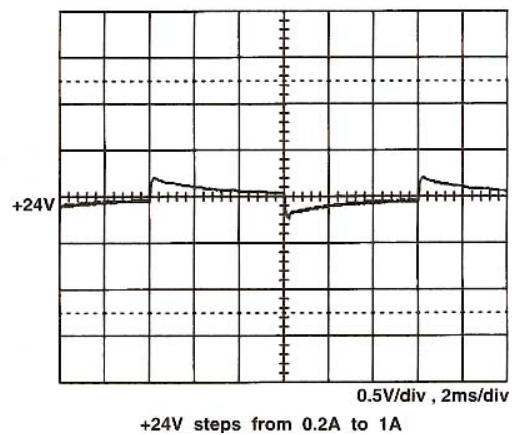
4. Output turn off wave form



5. Hold-up time



6. +24V step response

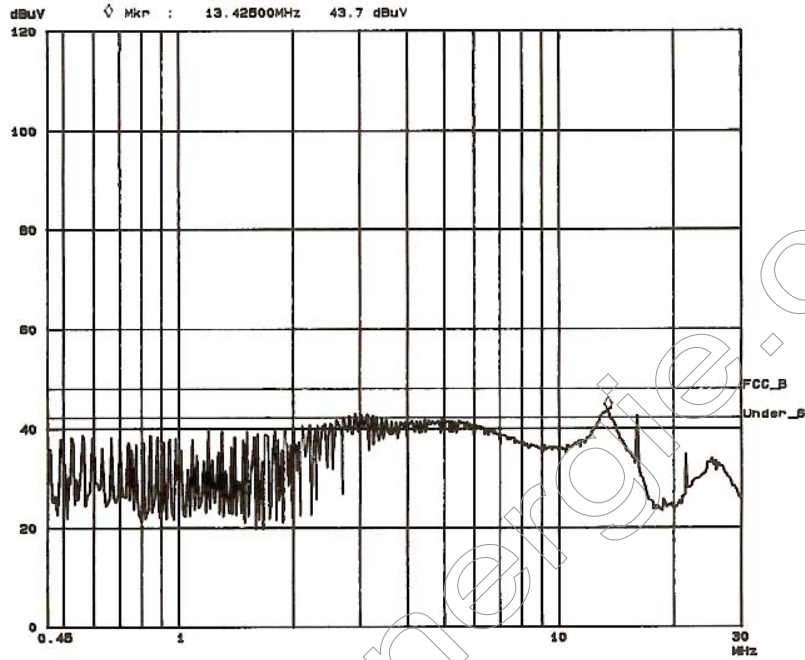




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7. FCC B



8. EN55022 B

