



### Description:

SNP-K02 / SNP-K03 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.

### Model available:

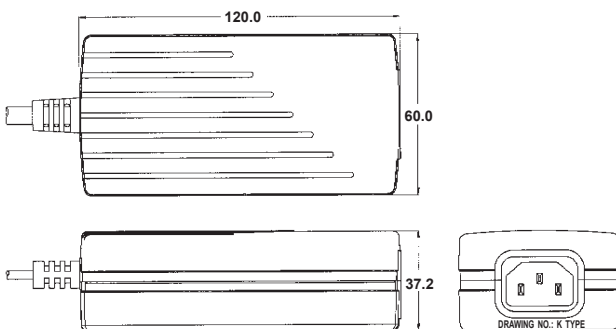
- SNP-K021 for 5V/2A, 12V/0.2A, -12V/0.2A
- SNP-K026-D for 5V/3A
- SNP-K037 for 12V/1.5A
- SNP-K038 for 15V/1.33A
- SNP-K039 for 24V/1A

### General Specifications:

Input voltage ..... 90VAC to 264VAC  
Input frequency ..... 47Hz to 63Hz  
Inrush current ..... less than 60A at 220VAC  
cold start, 25°C  
Efficiency ..... 73% typical depending on model  
Hold up time ..... > 16mS  
at rated load and 115VAC  
Over load protection ..... latch off  
Short circuit protection ..... latch off

Operating temperature ..... 0°C to 40°C, rated load  
Cooling ..... free air convection  
Storage temperature ..... -20°C to +85°C  
EMI ..... EN55022 "B", EN61000-3-2  
FCC docket 20780 class "B"  
EMS ..... IEC 801-2 8KV air discharge  
IEC 801-3 3V/m  
IEC 801-4 1KV  
Safety ..... meet UL 1950  
CSA C22.2 No. 234  
TUV EN 60950-1

### Mechanical Specifications:



### Note:

1. Dimensions shown in mm as left.  
120 X 60 X 37.2 (mm)
  2. Packing:  
Net weight: 270 g approx. / unit  
Gross weight: 18.5 kg approx. / carton, 60 units / carton  
Carton size (mm): 555 (L) x 395 (W) x 421 (H)
  3. 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.



THE RELIABLE SOURCE

# Switching Adapter (Universal)

20W  
SNP-K02 Series  
SNP-K03 Series

## Output Specifications:

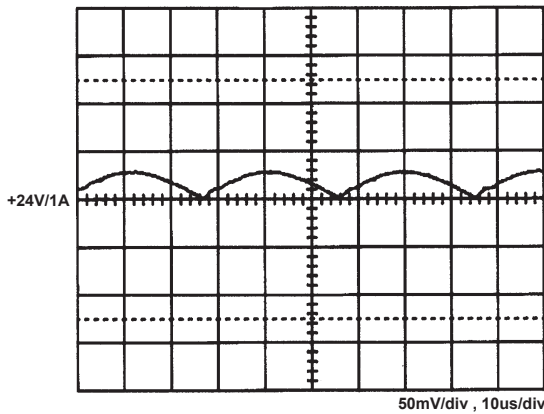
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-K021	+5V	0A	2A		+4.90V~+5.10V	70mV	±1%	±3%
	+12V	0A	0.2A		+11.40V~+12.60V	100mV	±1%	±3%
	-12V	0A	0.2A		-11.40V~-12.60V	100mV	±1%	±3%
SNP-K026-D	+5V	0A	3A	3.5A	+4.90V~+5.10V	50mV	±1%	±4%
SNP-K037	+12V	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:

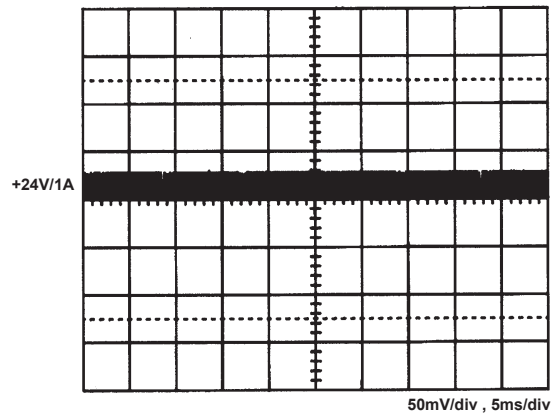
1. Each output can provide up to peak load separately when the power supply starts up. Continuous staying in more than rated load is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line Regulation is defined by changing ±10% of input voltage from nominal line at rated load.
4. Load regulation is defined by changing ±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-K039:

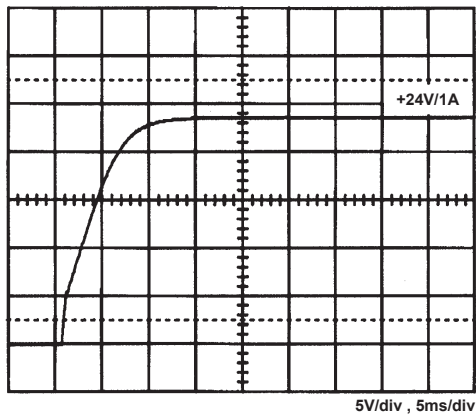
1. Switching frequency ripple



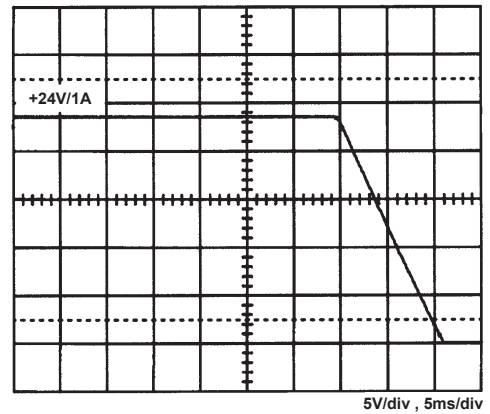
2. Line Frequency ripple



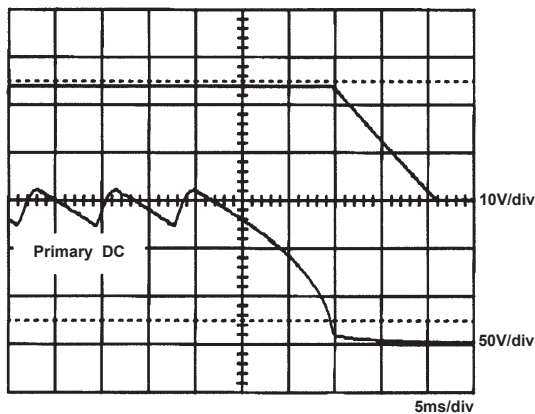
3. Output turn on wave form



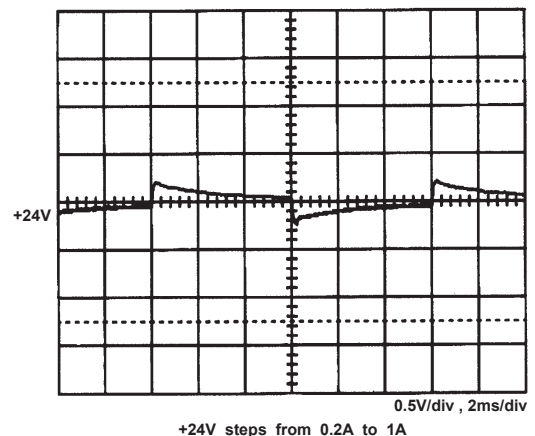
4. Output turn off wave form



5. Hold-up time



6. +24V step response



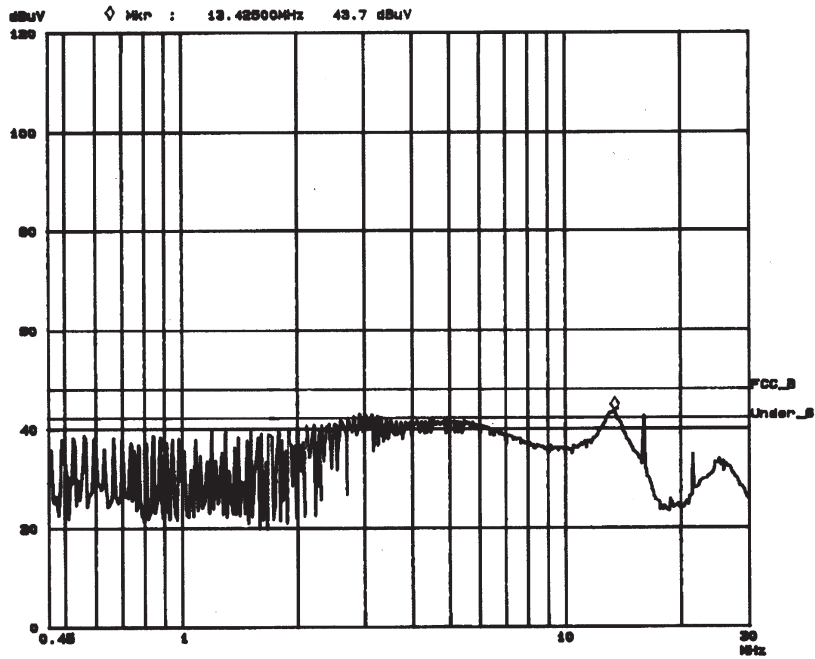


THE RELIABLE SOURCE

# Switching Adapter (Universal)

20W  
SNP-K02 Series  
SNP-K03 Series

## 7. FCC B



## 8. EN55022 B

