



## Features:

- External Desktop Adaptor
- With ITE safety
- Compatible to Class I safety & EMC

## Applications:

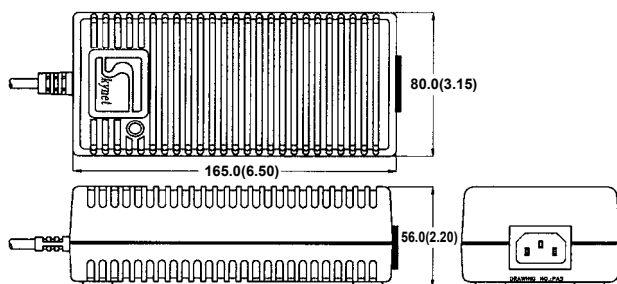
- For industrial device.
- For peak power required system.

## General Specifications:

Input voltage ..... 90VAC to 260VAC  
 Input frequency ..... 47Hz to 63Hz  
 Inrush current ..... < 30A at 115VAC  
 (cold start at 25°C) or < 60A at 230VAC  
 Efficiency ..... > 70%  
 at nominal line and rated load  
 Hold up time ..... longer than 16ms  
 at rated load and 115VAC  
 Short circuit protection ..... auto recovery

Over voltage protection ..... auto recovery  
 trip point at 5.7V to 7V  
 Operating temperature ..... 0°C to 50°C  
 Cooling ..... free air convection  
 Storage temperature ..... -40°C to +85°C  
 EMI conduction standard ..... FCC class "B"  
 VDE 0871 curve "B"  
 EMI radiation ..... FCC class "B"  
 Safety ..... UL 60950-1  
 CSA C22.2 No.60950-1, TUV EN60950-1

## Mechanical Specifications:

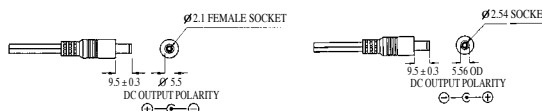


### Notes:

- Dimensions  
80 x 165 x 56 (mm)  
3.15" x 6.50" x 2.20"
- Packing:  
Net weight: 580 g approx. / unit  
Gross weight: 16 kg approx. / carton,  
24 units / carton  
Carton size (mm): 439 (L) x 411 (W) x 315 (H)
- Connectors:  
AC input: IEC 320 / CEE 22  
Standard Inlet
- Color:  
SNP-PA5X : Black  
SNP-PA5X-1 : Beige
- DC output connectors and pin assignment:  
SNP-PA51, SNP-PA53, SNP-PA54:  
Type: 5 Pin at 180° Din plug

PA51	PA53	PA54
+5V	+5V	+5V
+12V	+12V	+15V
GND	GND	GND
-12V	NC	-15V
GND	GND	GND

SNP-PA55, SNP-PA57, SNP-PA58:      SNP-PA59:  
 Type: DC Power Jack,  $\varnothing 2.1$  Socket type      Type: DC Power Jack,  $\varnothing 2.5$  Socket type



## Output Specifications:

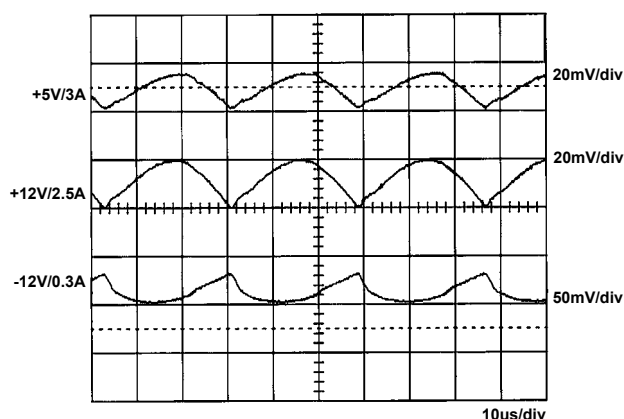
MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-PA51	+5V	0A	3A		4A	+4.85~+5.15V	1%	±1%	±5%
	+12V	0A	2.5A		3A	+11.4~+12.6V	1%	±1%	±6%
	-12V	0A	0.3A		0.5A	-11.0~-13.0V	1%	±1%	±5%
SNP-PA53	+5V	0A	3.5A		4A	+4.85~+5.15V	1%	±1%	±5%
	+12V	0A	2.5A		3A	+11.4~+12.6V	1%	±1%	±6%
SNP-PA54	+5V	0A	3A		4A	+4.85~+5.15V	1%	±1%	±5%
	+15V	0A	1.5A		2A	+14.25~15.75V	1%	±1%	±6%
	-15V	0A	0.3A		0.5A	-13.5V~-16.5V	1%	±1%	±5%
SNP-PA5C	+9V	0A	5A			+8.5V~+9.5V	1%	±1%	±5%
SNP-PA55	+18V	0A	3A			+17.0V~+19.0V	1%	±1%	±5%
SNP-PA57	+12V	0A	4.2A			+11.4V~+12.6V	1%	±1%	±5%
SNP-PA58	+15V	0A	3.5A			+14.25V~+15.75V	1%	±1%	±5%
SNP-PA58-C	+13.8V	0A	3.5A		4A	+13.2V~+14.5V	1%	±1%	±5%
SNP-PA59	+24V	0A	2.3A			+23.0V~+25.0V	1%	±1%	±5%
SNP-PA5T	+48V	0A	1.1A			+45.6V~+50.4V	0.05%	±1%	±5%

### Note:

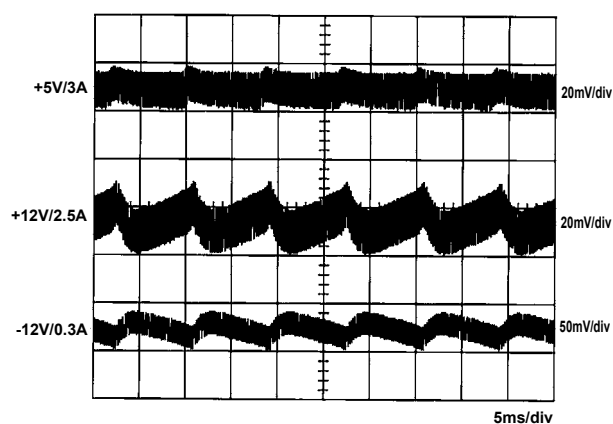
- Each output can provide up to peak load temporarily. Continuous staying in more than rated load will reduce the reliability.
- At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the accuracy range at rated load.
- Line regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
- Load regulation is defined by changing  $\pm 40\%$  of measured output load from 60% rated load at another output set to 60% rated load.
- 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.
- Hold up time is measured from the end of the last charging pulse to the time which the +5V output drop down to 4.75V at rated load and nominal line.
- Efficiency is measured at rated load.

## Performance for SNP-PA51

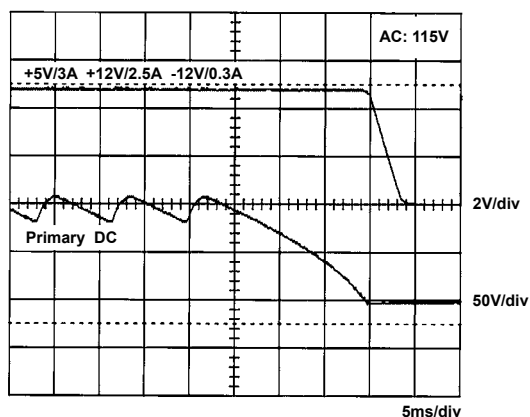
### 1. Switching frequency ripple



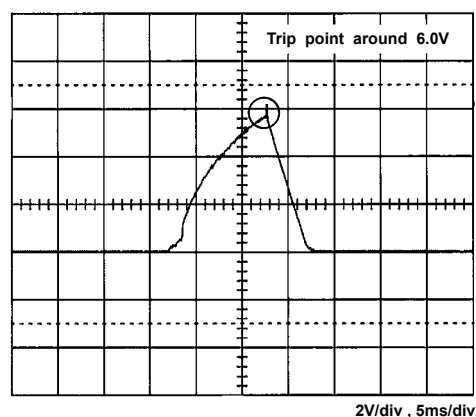
### 2. Line frequency ripple



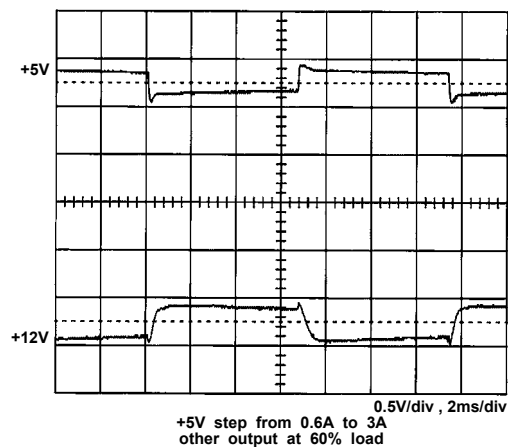
### 3. Hold-up time



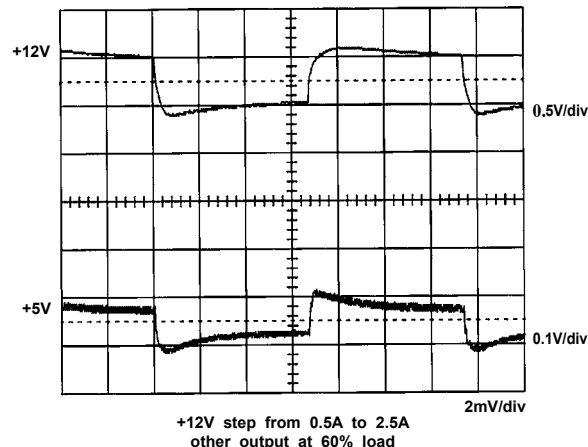
### 4. Over voltage protection



### 5. +5V step response



### 6. +12V step response



### 7. Radiation FCC B Performance

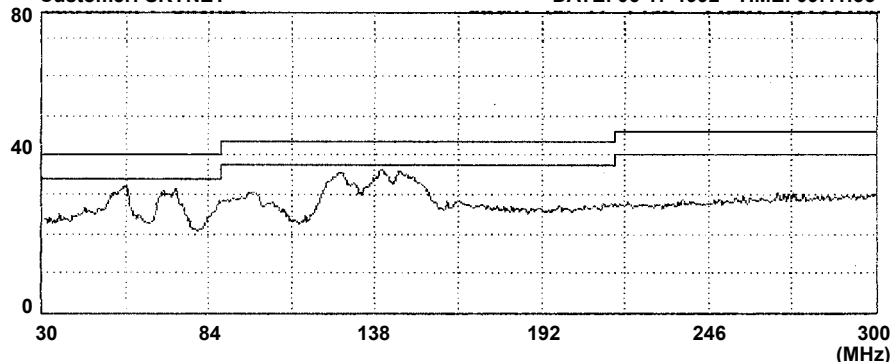
Data 139  
(dBuV/m)

Sweep Time:  
0.5 sec  
Res. BW:  
100 KHz  
Video BW:  
100KHz

Antenna:  
BBA9106B  
Horizontal  
Limit line:  
FCC Class B  
3m

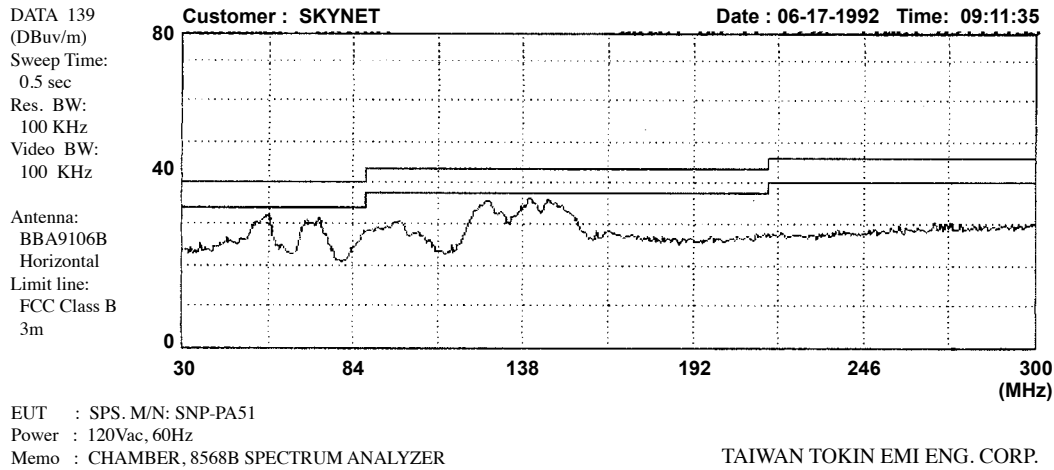
Customer: SKYNET

DATE: 06-17-1992 TIME: 09:11:35



EUT : SPS. M/N: SNP-PA51  
Power : 120Vac, 60Hz  
Memo : CHAMBER, 8568B Spectrum Analyzer

TAIWAN TOKIN EMC ENG. CORP.



## 8. VDE B performance

