



80 x 165 x 56 (mm)

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

Features:

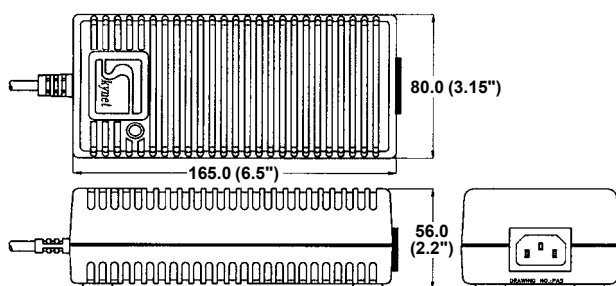
- External Desktop Adaptor
- With ITE safety
- Compatible to Class I safety & EMC

Applications:

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

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:

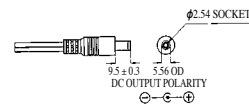
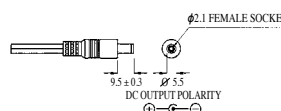
- Size:
80 x 165 x 56 (mm)
- Connectors:
AC input: IEC 320 / CEE 22
Standard Inlet
- Color:
SNP-PA5x: Black
SNP-PA5x-1: Beige
- DC output connectors and pin assignment:

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:
Type: DC Power Jack, $\phi 2.1$ Socket type

SNP-PA59:
Type: DC Power Jack, $\phi 2.5$ Socket type



- 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)

Output Specifications:

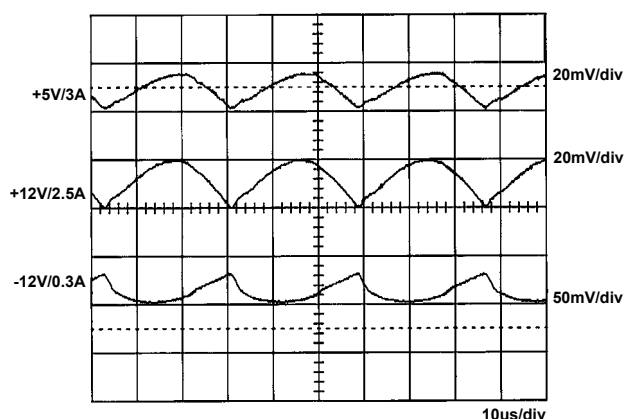
MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-PA51	+5V	0A	3A		4A	+4.85~+5.15V	1%	±1%	±5%
	+12V	0A	2.5A		3A	+11.4~+12.6V	1%	±1%	±6%
	-12V	0A	0.3A		0.5A	-11.0~-13.0V	1%	±1%	±5%
SNP-PA53	+5V	0A	3.5A		4A	+4.85~+5.15V	1%	±1%	±5%
	+12V	0A	2.5A		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:

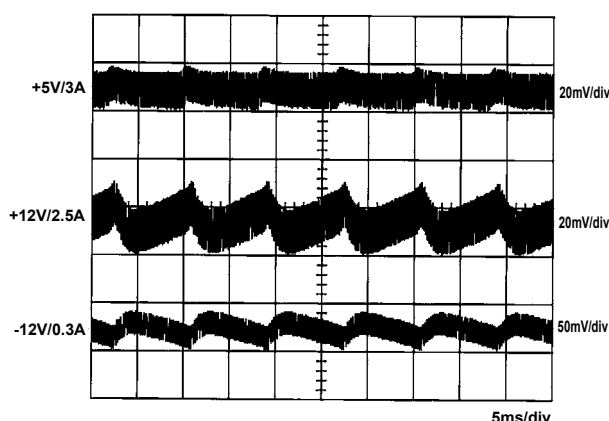
- Each output can provide up to peak load temporarily. Continuous staying in more than rated load will reduce the reliability.
- At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the accuracy range at 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

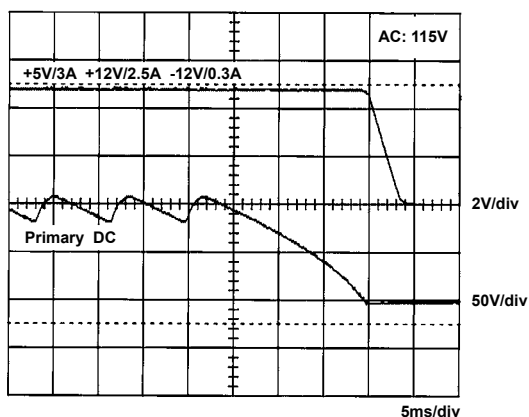
1. Switching frequency ripple



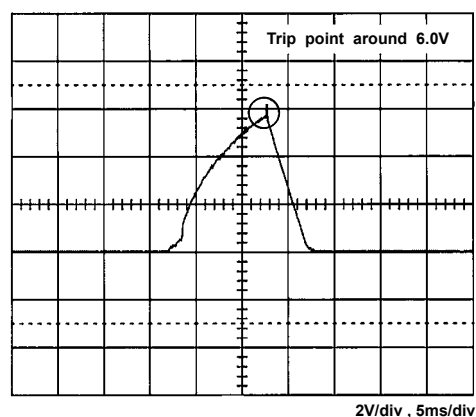
2. Line frequency ripple



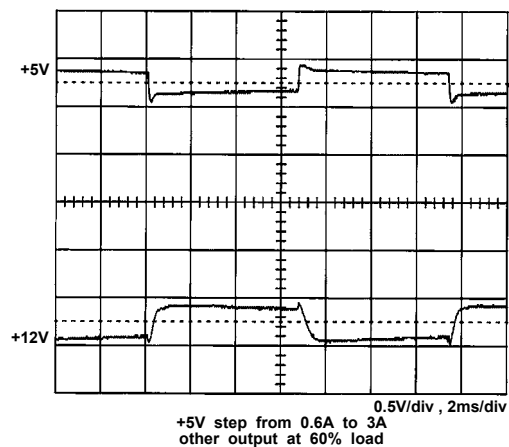
3. Hold-up time



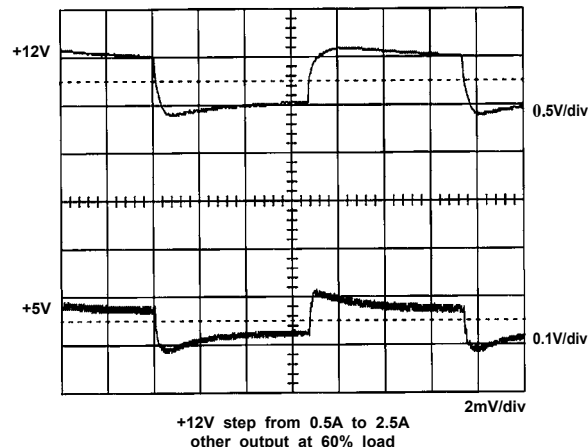
4. Over voltage protection



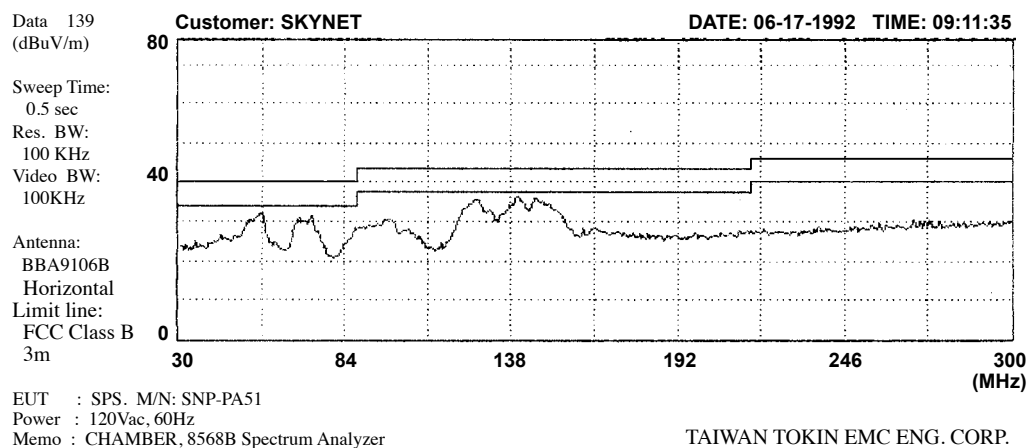
5. +5V step response

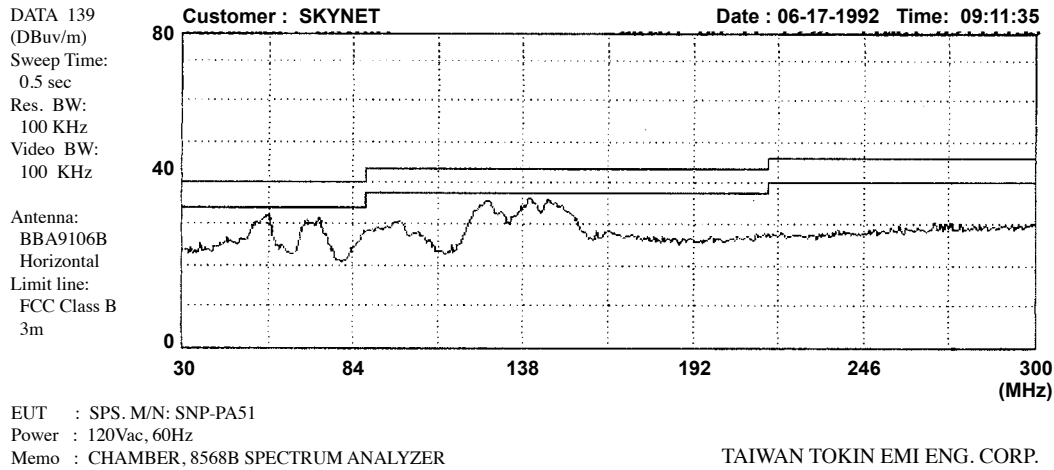


6. +12V step response



7. Radiation FCC B Performance





8. VDE B performance

