

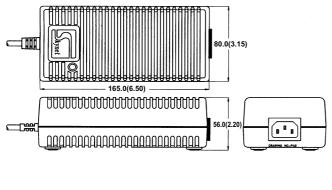
Switching Adapter (Universal)



General Specifications:

Input voltage	90VAC to 260VAC
Input frequency	
Inrush current	less than 30A at 115VAC
(Cold start)	less than 60A at 230VAC
Efficiency	higher than 70%
	at nominal line and rated load
Hold up time	longer than 16ms
-	at rated load and 115VAC
Short circuit protection	auto recovery

Mechanical Specifications:



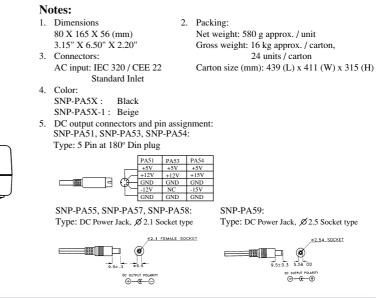
Description:

SNP-PA5X series is an universal input, with various options of outputs in plastic box, and a 50 watts switching mode power supply. It is designed to meet UL, CSA, VDE safety approval and VDE 0871 "B" conducted, FCC part 15 class "B" conducted, radiation EMI limits. It is made for external desk top applications.

Model available:

- SNP-PA51 for 5V/3A, 12V/2.5A, -12V/0.3A
- SNP-PA53 for 5V/3.5A, 12V/2.5A
- SNP-PA54 for 5V/3A, 15V/1.5A, -15V/0.3A
- SNP-PA5C for 9V/5A
- SNP-PA55 for 18V/3A
- SNP-PA57 for 12V/4.2A
- SNP-PA58 for 15V/3.5A
- SNP-PA58-C for 13.8V/3.5A
- SNP-PA59 for 24V/2.3A
- SNP-PA5T for 48V/1.1A

Over voltage protection auto recover		
	trip point at 5.7 to $7\dot{V}$	
Operating temperature	0 to 50°C	
Cooling		
Storage temperature		
EMI conduction standard	FCC class "B"	
	VDE 0871 curve "B"	
EMI radiation	FCC class "B"	
Safety	UL 1950	
CSA	22.2 No.234,VDE 60 950	





Output Specifications:

MODEL NO.	OUTPUT RAIL	. MIN.	LOAD RATED	PEAK	VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
SNP-PA51	+5V +12V -12V	0A 0A 0A	3A 2.5A 0.3A	4A 3A 0.5A	+4.85~+5.15V +11.4~+12.6V -11.0~-13.0V	1% 1% 1%	±1% ±1% ±1%	±5% ±6% ±5%
SNP-PA53	+5V +12V	0A 0A	3.5A 2.5A	4A 3A	+4.85~+5.15V +11.4~+12.6V	1% 1%	±1% ±1%	±5% ±6%
SNP-PA54	+5V +15V -15V	0A 0A 0A	3A 1.5A 0.3A	4A 2A 0.5A	+4.85~+5.15V +14.25~15.75V -13.5V~-16.5V	1% 1% 1%	±1% ±1% ±1%	$\pm 5\% \\ \pm 6\% \\ \pm 5\%$
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:

1. 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 2 range at rated load.

3. Line regulation is defined by changing +-10% of input voltage from nominal line at rated load.

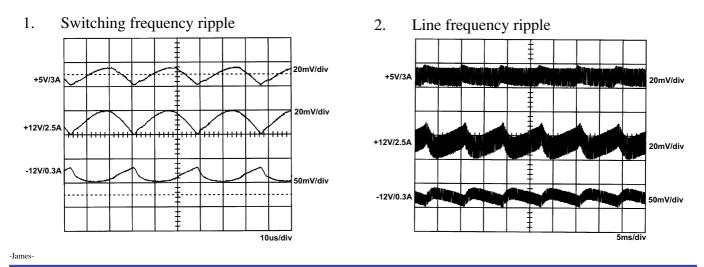
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5.

Load regulation is defined by changing + 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. 6.

7. Efficiency is measured at rated load.

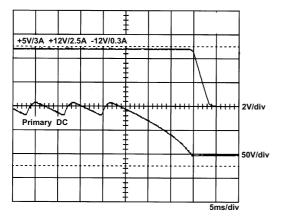
Performance for SNP-PA51



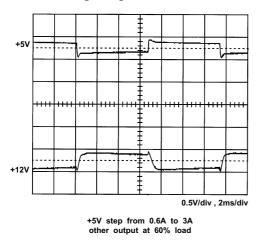


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3. Hold-up time

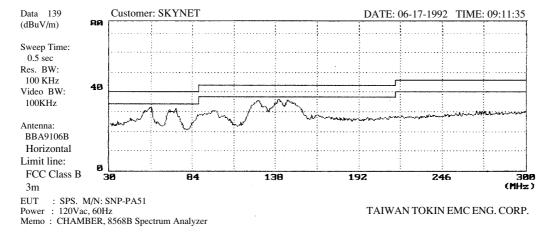


5. +5V step response

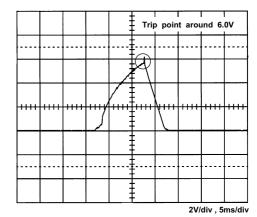


7. Radiation FCC B Performance

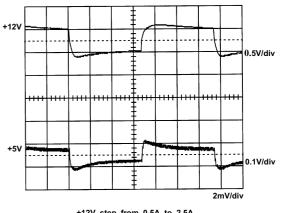
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4. Over voltage protection

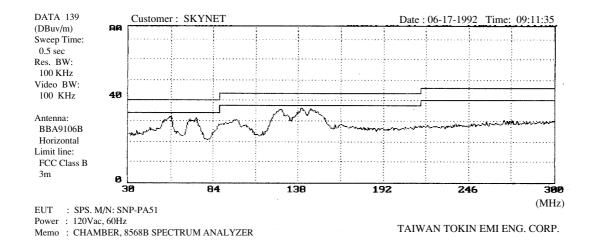


6. +12V step response



+12V step from 0.5A to 2.5A other output at 60% load





8. VDE B performance

