



Features:

- With built-in PFC
- 85% ~ 90% efficiency
- 60% power boost ability
- 23.5V to 29V adjustable output range
- Parallel operation:
SNP-D129 & SNP-D249 by optional module
SNP-D489 built-in
- Patented Ring-Free ZVS & Active PFC

Applications:

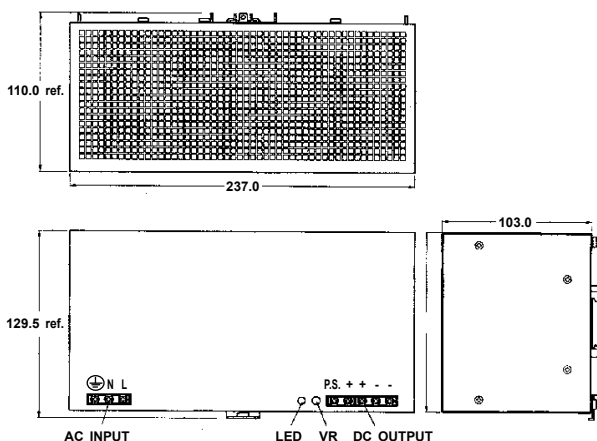
- For ITE audio equipment, telecommunication, network, IPC, instrument equipment, and other uses.

General Specifications:

Input voltage	90VAC to 264VAC
Input current	<10A@115VAC, < 5A @230VAC
Input frequency	47Hz to 63Hz
Inrush current	< 30A @ 115VAC
(cold start at 25°C)	or < 60A@ 230VAC
Outputs	see output table
Efficiency	90% typical at 230VAC
Hold up time	> 20ms
	at 115VAC input
Over voltage protection	latch off

Short circuit protection	auto recovery
Over load protection	auto recovery
Operating temperature	-10°C to +70°C
(derating : typ. 12W/K > 50°C@115VAC, > 60°C@230VAC)	
Cooling	free air convection
Storage temperature	-25°C to +85°C
EMI standard	FCC docket 20780 curve "B"
	EN55022 "B", EN61000-3-2 Class D
Safety	UL 1950, UL 508
	CSA C22.2 No. 950-M90, EN 60950

Mechanical Specifications:



Note:

1. Dimensions shown in mm as left. Tolerance specified is ± 0.4 mm.
2. Size:
237 x 125 x 103 (mm)
3. Packing:
Net weight: 1980 g approx. / unit
Gross weight: 14 kg approx. / carton, 6 units / carton
Carton size (mm): 450 (L) x 367 (W) x 311 (H)
4. Connectors:
AC & DC Connector : Terminal blocks
(suitable wire 26~10AWG)
5. Power on indicator:
Green light on the panel
6. Hook:
For standard symmetrical 35mm DIN-rail

Output Specifications:

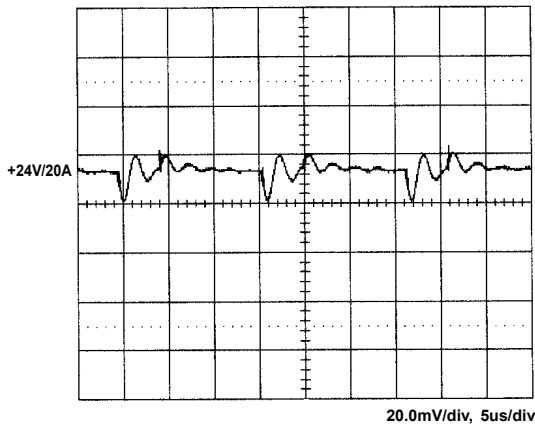
MODEL NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-D489	+24V	0A	20A		25A	±2%	<50mVpp	±1%	±1%

Notes:

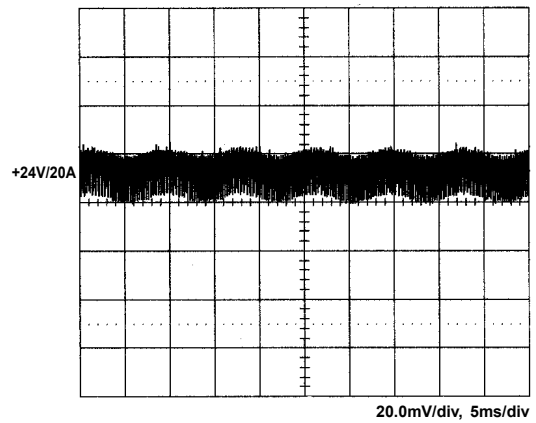
1. Each output can deliver peak load for max. 1 min. at 45°C or even continuous with forced cooling.
2. At factory, in 60% rated load condition, the output is checked to be within the accuracy range while the main output is set within the specified accuracy range at rated load.
3. Line regulation is 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.
5. Ripple & noise is measured by using 15MHz bandwidth limited oscilloscope and terminated the 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 when the main output drop down to regulation limit at rated load and nominal line.
7. Efficiency is measured at rated load and nominal line.

Performance:

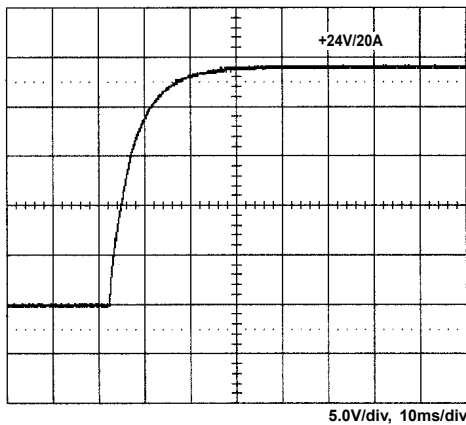
1. Switching frequency ripple



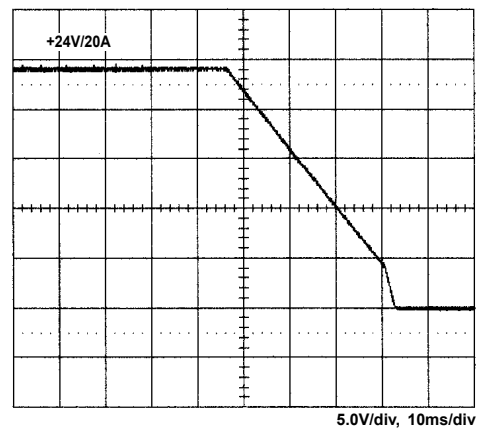
2. Line frequency ripple



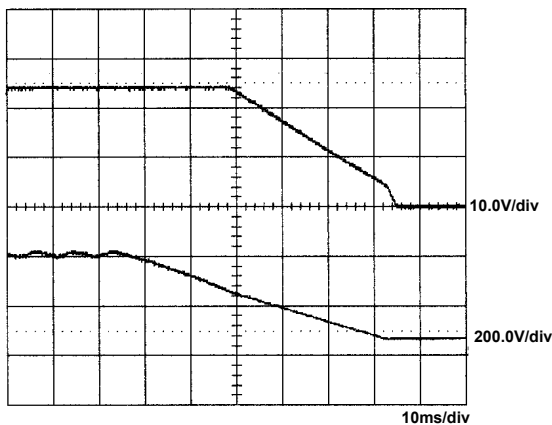
3. Output turn on wave form



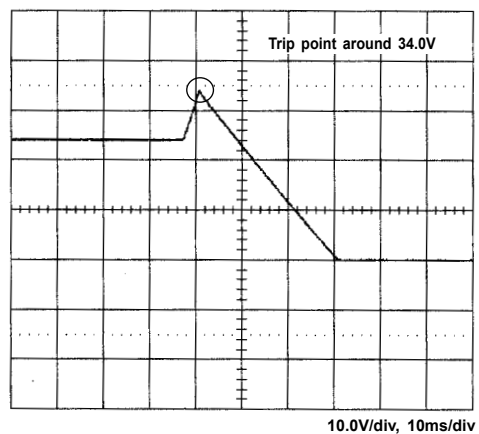
4. Output turn off wave form



5. Hold-up time

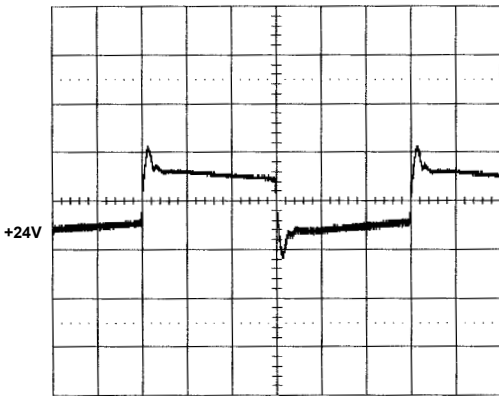


6. Over voltage protection

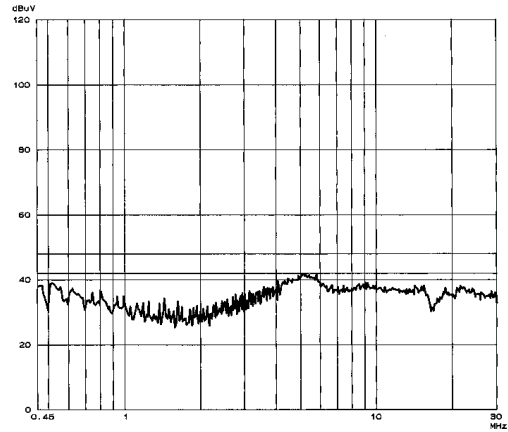


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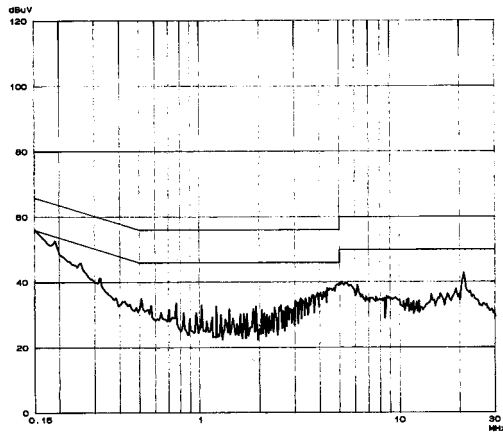
7. +24V step response



8. FCC B



9. EN 55022 B



10. Power derating curve

