



Features:

- With built-in PFC
- $85\% \sim 90\%$ 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

Model available:

- SNP-D129 · single phase · universal · 24V/5A SNP-D249 · single phase · universal · 24V/10A SNP-D489 · single phase · universal · 24V/20A • •

General Specifications:

@115VAC, < 5A @230VAC
< 30A @ 115VAC
<60A@ 230VAC
see output table
90% typical at 230VAC
longer than 20ms
at 115VAC input
latch off

Short circuit protection	auto recovery
Over load protection	auto recovery
Operating temperature	10°C to +70°C
(derating : typ. 12W/k	$X > 50^{\circ}C@115VAC, > 60^{\circ}C@230VAC)$
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	OUTPUT	LOAD			VOLTAGE	RIPPLE	LINE	LOAD
NO.	RAIL	MIN.	RATED	PEAK	ACCURACY	NOISE	REG.	REG.
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 $\pm 10\%$ of input voltage from nominal line at rated load.
- 4. Load regulation is defined by changing $\pm 40\%$ 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



3. Output turn on wave form



5. Hold-up time



2. Line frequency ripple



4. Output turn off wave form



6. Over voltage protection





7. +24V step response



9. EN 55022 B



- 8. FCC B
- 10. Power derating curve

