General Purpose (Universal)



Description:

SNP-906 series is a 65 watts, universal input switching mode power supply. It is with various output options. SNP-9063 is intended for disk drive application. SNP-9067 and SNP-9069 are intended for power device like motor or solenoid application. Build in +5V 3T-regulator for SNP-9067 and SNP-9069 is for if there is a logical control circuit.

Model available:

- SNP-9061 for 5V/3.5A, 12V/4A, -12V/0.3A
- SNP-9063 for 5V/3.5A, 12V/4A
- SNP-9066 for 5V/13A
- SNP-9067 for 12V/5A, 5V/0.5A
- SNP-9068 for 15V/4A, 5V/0.5A
- SNP-9069 for 24V/2.5A, 5V/0.5A

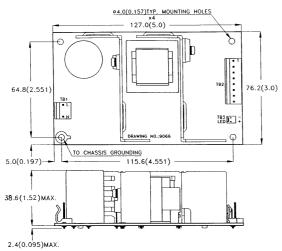
General Specifications:

Input voltage	85VAC to 270VAC
Input frequency	47Hz to 63Hz
Inrush current	less than 30A at 115VAC
(Cold start)	less than 60A at 230VAC
Efficiency	higher than 70%
	at rated load and 115VAC
Hold up time	longer than 16ms
	at rated load and 115VAC
Over load protection	latch off

Short circuit protection	latch off
Over voltage protection	latch off
Operating temperature (open frame type)	0 to 50°C
Cooling	Free air convection
Storage temperature	40°C to +85°C
EMI conduction standard	FCC class "B"
	Vfg 243/1991
Safety	UL 1950 D3
	CSA 22.2 No.234
	VDE EN60 950

Mechanical Specifications:

SNP-9066



Notes:

- Dimensions shown in mm (inch) as above. Tolerance specified is + 0.4mm.
- PCB size: 76.2. X 127.0 mm
- 3" X 5" Mounting holes: 64.8 X 115.6 mm 2.551" X 4.551"
- Connectors a) TB1 AC input Molex 5277-2 or equivalent for all models TB2 - DC output TB3 - for FAN Molex 5273-8 or equivalent for all models Molex 5045-2 or equivalent for SNP-9061, -9063, -9067, -9069 Molex 5045-2 or equivalent for SNP-9066 Molex 5045-2 or equivalent for SNP-9063, -9067, -9068, -9069 TB3 - for LED
 - TB4 for LED TB2 Pin assignment:

PIN NO.	1	2	3	4	5	6	7	8
SNP-9061	+5V	+5V	GND	GND	+12V	+12V	-12V	NC
SNP-9063	+5V	+5V	GND	GND	GND	GND	+12V	+12V
SNP-9066	+5V	+5V	+5V	+5V	GND	GND	GND	GND
SNP-9067	+12V	+12V	+12V	GND	GND	GND	GND	+5V
SNP-9068	+15V	+15V	+15V	GND	GND	GND	GND	+5V
SNP-9069	+24V	+24V	+24V	GND	GND	GND	GND	+5V

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FEB. 2001



General Purpose (Universal)

60W SNP-906 Series

Output Specifications:

MODEL	OUTPUT	LOAD		VOLTAGE	RIPPLE	LINE	LOAD	
NO.	RAIL	MIN.	RATED	PEAK	ACCURACY	NOISE	REG.	REG.
SNP-9061	+5V	0A	3.5A	5A	+4.95~+5.05V	1%	±1%	±3%
	+12V	0A	4A	11A	+11.4~+12.6V	1%	±1%	±3%
	-12V	0A	0.3A		-11.4~-12.6V	1%	±1%	±5%
SNP-9063	+5V	0A	3.5A	5A	+4.95~+5.05V	1%	±1%	±3%
	+12V	0A	4A	11A	+11.4~+12.6V	1%	±1%	±5%
CNID 0066	, 5V	0A	12 4		14.05 15.05V	1%	±1%	1107
SNP-9066	+5V	UA	13A		+4.95~+5.05V	1%	±1%	±1%
SNP-9067	+12V	0A	5A	12A	+11.88~+12.12V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75~+5.25V	1%	±1%	±5%
SNP-9068	+15V	0A	4A		+14.85~+15.15V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75~+5.25V	1%	±1%	±5%
SNP-9069	+24V	0A	2.5A	6A	+23.76~+24.24V	1%	±1%	±1%
	+5V	0A	0.5A		+4.75~+5.25V	1%	±1%	±5%

Note:

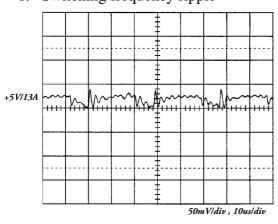
- 1. Each output can provide up to peak load temporarily. Continuous staying in more than rated load is not allowed.
- 2. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is setting to within the specified accuracy range 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 ±40% of measured output load from 60% rated load at another output set to 60% rated load.
- 5. 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.
- 6. Hold up time is measured from the end of the last charging pulse to the time which the main output drop down to regulation limit at rated load and nominal line.
- 7. Rated load is maximum loading for flat mounting and free air convection cooling.
- 8. Performance of turn on peak power is shown in figure 9, page 4-4. Rising edge means power on, falling edge means over load protection happened.

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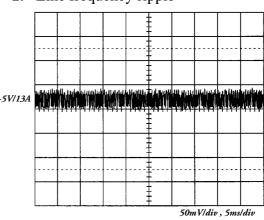
General Purpose (Universal)

Performance for SNP-9066:

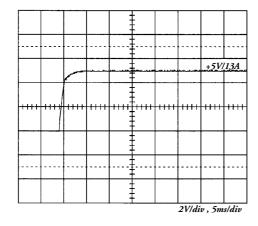
1. Switching frequency ripple



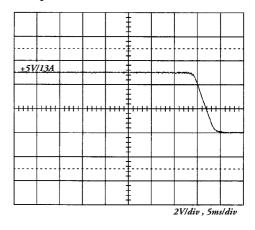
2. Line frequency ripple



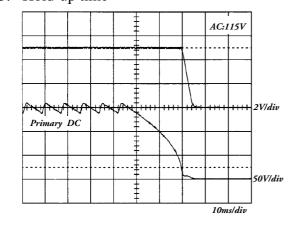
3. Output turn on wave form



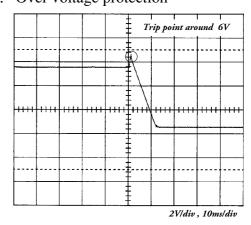
4. Output turn off wave form



5. Hold-up time



6. Over voltage protection

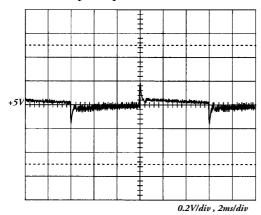


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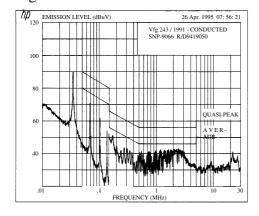
General Purpose (Universal)

7. +5V step response



+5V steps from 2.6A to 13A

9. Vfg 243



8. FCC B

