SNP-B Series

40-300W AC/DC Machinery Power Supplies - Medical

CoolPower Solutions



Features:

- Safety meet ITE and Medical application
- 24V output with 22V to 30V adjustable
- Build in active PFC for power > 75W
- Build in power on LED indicator
- Easy plug for remote sense input
- With all necessary protection
- Efficiency up to 85%
- 1U height

Model available:

- SNP-B049 for 24V/1.7A
- SNP-B069 for 24V/2.5A
- SNP-B109 for 24V/4.2A
- SNP-B159 for 24V/6.5A
- SNP-B209 for 24V/8.5A
- SNP-B309 for 24V/12.5A

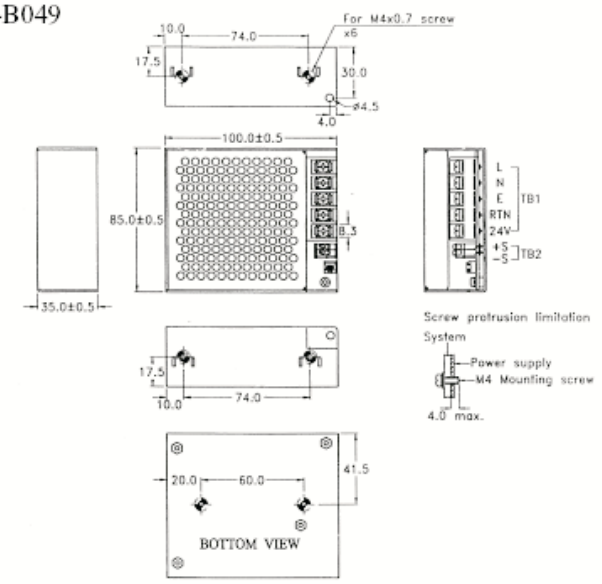
General Specifications:

Input voltage .....90VAC to 264VAC
Input frequency.....47Hz to 63Hz
Inrush current ..... less than 30A at 115VAC
less than 60A at 230VAC
cold start, 25°C
Capacitive load ..... up to 8000uF
Efficiency ..... 85% typical
at rated load and 115VAC
Hold up time ..... >20mS
at rated load and 115VAC
Over load protection ..... auto recovery
Over temperature protection ..... auto recovery

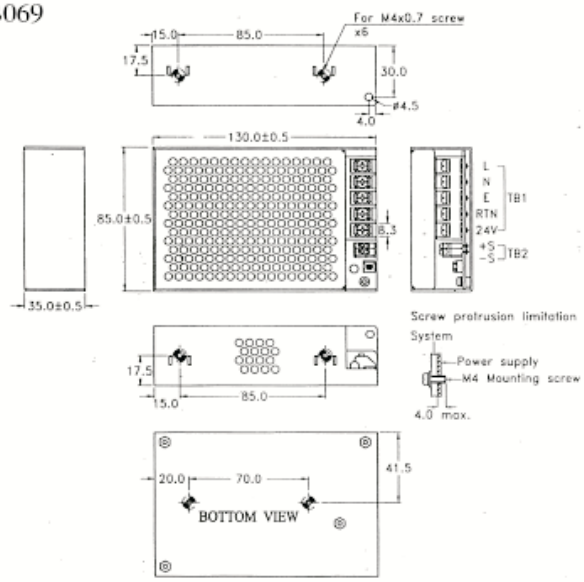
Short circuit protection ..... auto recovery
Over voltage protection ..... latch off
Remote sense ..... available
Power on indicator .....green LED on board
Operating temperature ..... 70°C ambient
start up from -20°C, derate output 2.5%/°C from 50°C
SNP-B309 derated from 40°C by 1.5%/°C
Storage temperature .....-20° C to +85° C
Operating humidity 5% to 95% non-condensing at 50°C
EMI ..... FCC docket 20780 curve "B"
EN55022 curve "B"
EMS EN61000-4-2,-3,-4,-5,-6,-11
Safety ..... meet UL 60950, UL 2601-1
CSA 22.2 No.234, No. 950 & 601-1
EN 60950, 60601-1

Mechanical Specifications:

SNP-B049



SNP-B069



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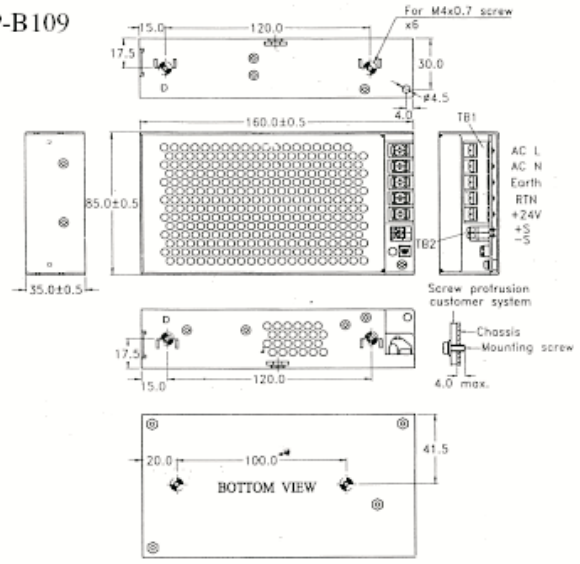
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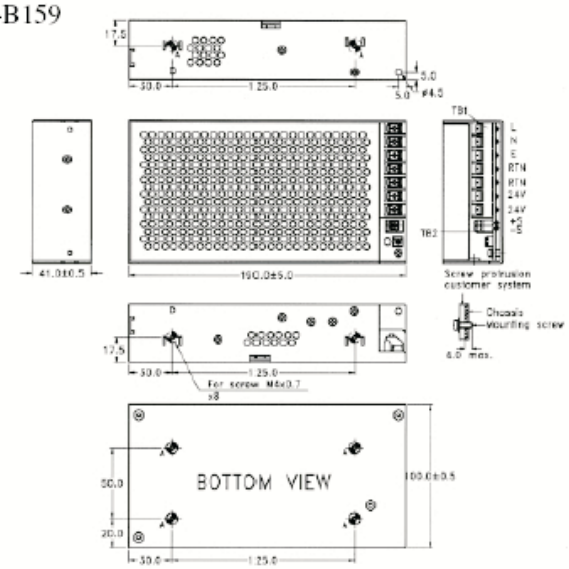
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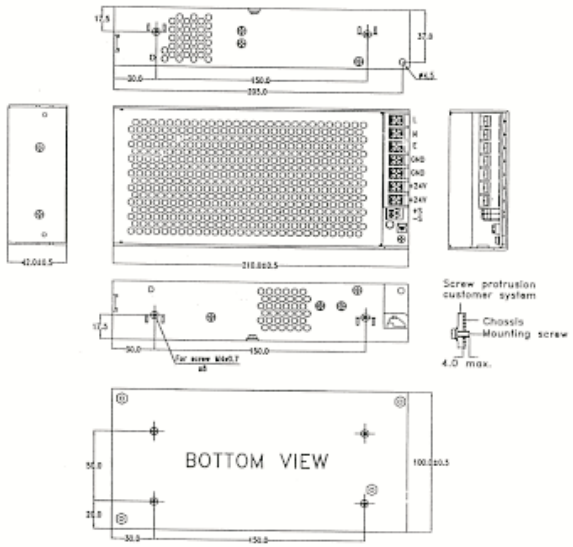
SNP-B109



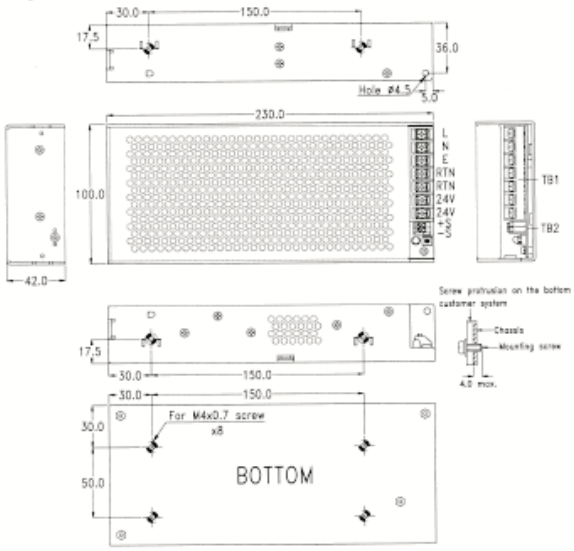
SNP-B159



SNP-B209



SNP-B309



Notes:

1. Dimensions shown in mm as above. Tolerance: ±1mm.
2. Size:
   SNP-B049 : 85.0mm x 100.0mm x 35.0mm
   SNP-B069 : 85.0mm x 130.0mm x 35.0mm
   SNP-B109 : 85.0mm x 160.0mm x 35.0mm
   SNP-B159 : 100.0mm x 190.0mm x 41.0mm
   SNP-B209 : 100.0mm x 210.0mm x 42.0mm
   SNP-B309 : 100.0mm x 230.0mm x 42.0mm
3. Din Rail Mounting Fixture:



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Output Specifications:

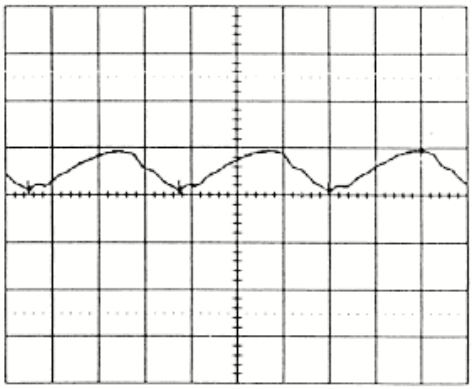
MODEL NO.	OUTPUT RAIL	LOAD			VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	PEAK				
SNP-B049	+24V	0A	1.7A	3A	±2%	50mVpp	±1%	±1%
SNP-B069	+24V	0A	2.5A	5A	±2%	50mVpp	±1%	±1%
SNP-B109	+24V	0A	4.2A	6A	±2%	50mVpp	±1%	±1%
SNP-B159	+24V	0A	6.5A	8A	±2%	50mVpp	±1%	±1%
SNP-B209	+24V	0A	8.5A	10A	±2%	50mVpp	±1%	±1%
SNP-B309	+24V	0A	12.5A	15A	±2%	50mVpp	±1%	±1%

Note:

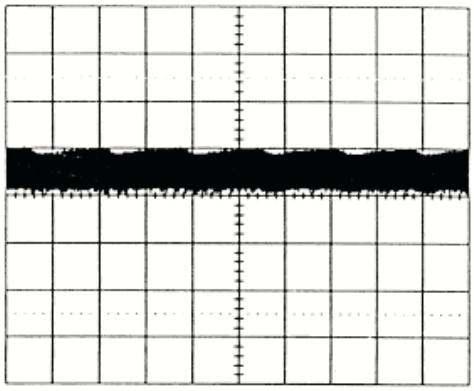
1. All the measurements are taken at rated load and nominal line unless specified.
2. The output voltage is set in production line within the voltage accuracy range at 60% rated load, nominal line. Other voltage accuracy can be done upon requested.
3. The output can deliver listed peak load for more than 10 seconds.
4. Ripple & noise is measured by oscilloscope with 20MHz bandwidth limited and terminated the load with 0.47uF capacitor.
5. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
6. Load regulation is defined by changing ± 40% of load from 60% rated load at nominal line.
7. Hold up time is measured from the end of the last charging pulse to the time which the output drop down to the regulation limit.

Performance for SNP-B049:

1. Switching frequency ripple



2. Line frequency ripple

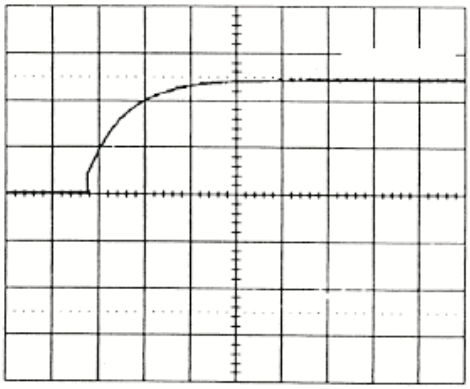


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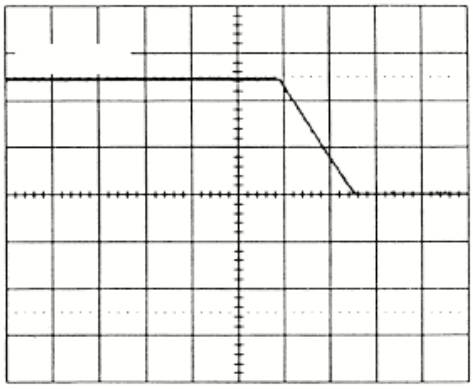
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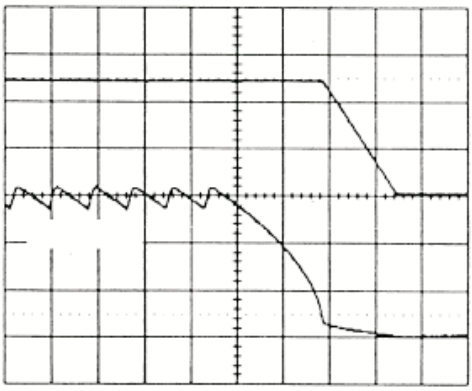
3. Output turn on wave form



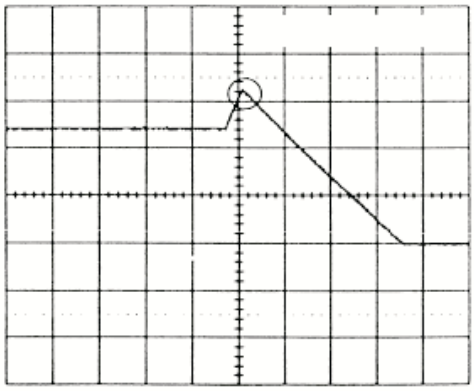
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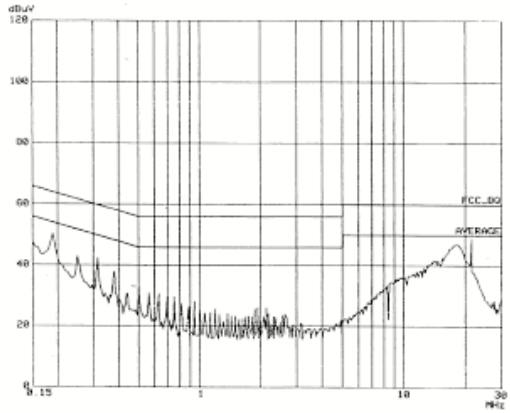
5. Hold-up time



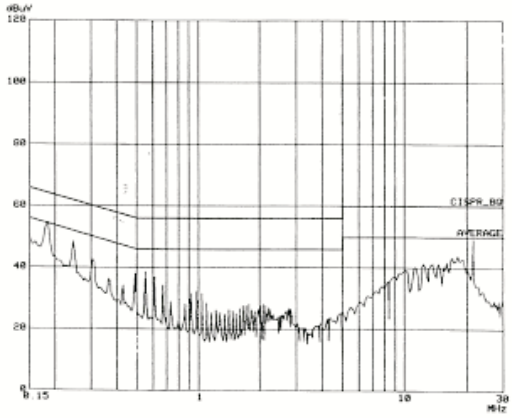
6. Over voltage protection



7. FCC B



8. EN 55022 B



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