



### Features:

- Safety meet ITE and Medical application
- Built-in active PFC for power > 75W
- Built-in power on LED indicator
- Easy plug for remote sense input
- Power up 8000uF capacitance capability
- With all necessary protection
- Efficiency up to 85%
- 1U height

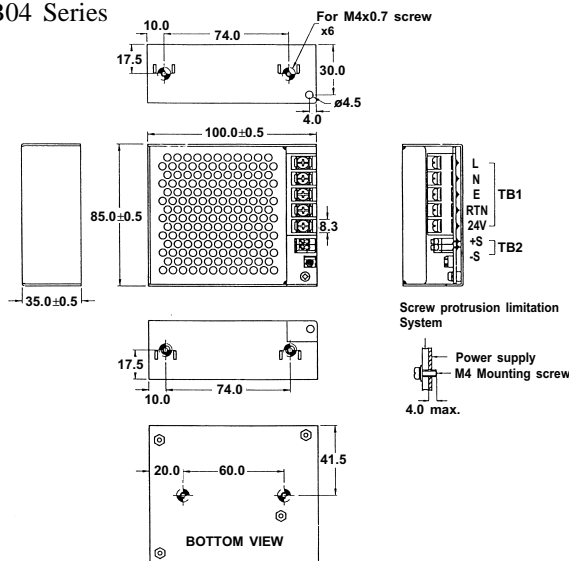
### General Specifications:

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

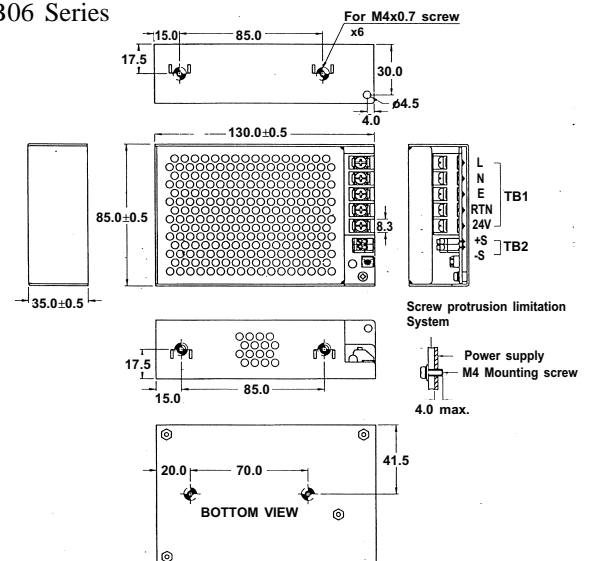
Short circuit protection ..... auto recovery  
 Over voltage protection ..... latch off  
 Remote sense ..... available  
 Power on indicator ..... green LED on board  
 Operating temperature ..... 0 to 70°C ambient  
                                 start up from -20°C, derate output 2.5%/°C from 50°C  
                                 SNP-B30X 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 60950-1, UL 60601-1  
                                 CSA C22.2 No. 60950-1 & 60601-1  
                                 EN 60950-1, 60601-1

### Mechanical Specifications:

#### SNP-B04 Series

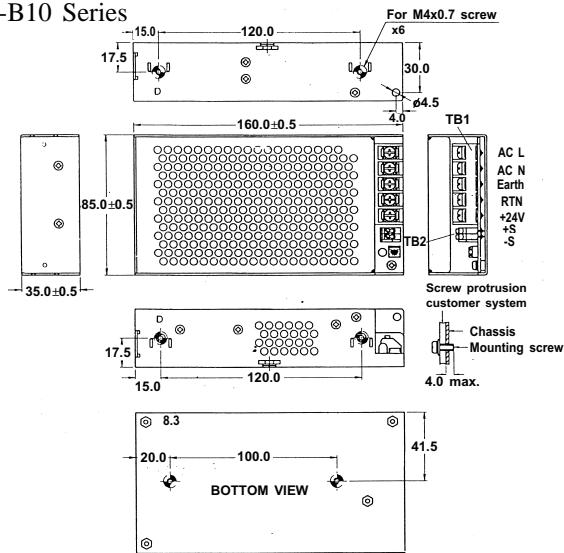


#### SNP-B06 Series

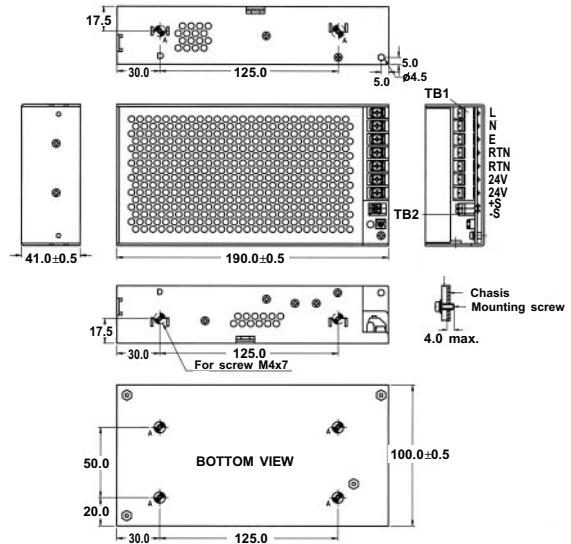


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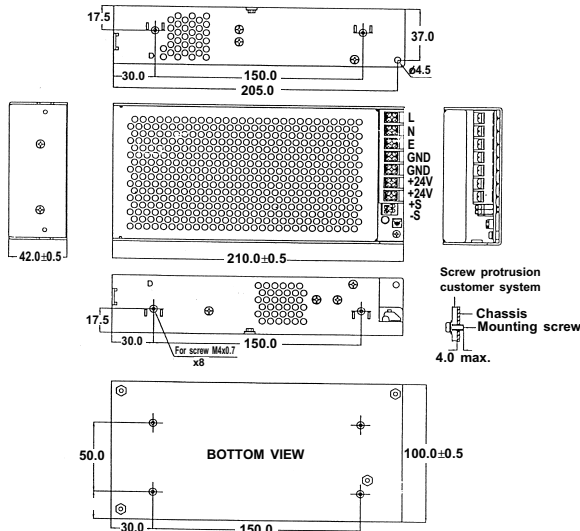
### SNP-B10 Series



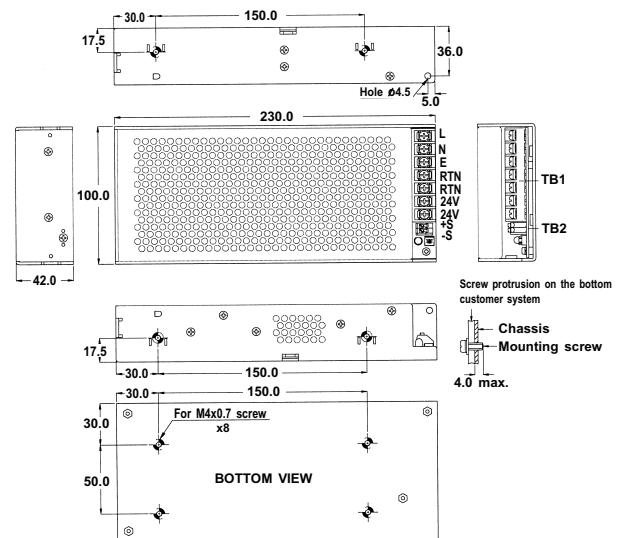
### SNP-B15 Series



### SNP-B20 Series




### SNP-B30 Series



#### Notes:

- Dimensions shown in mm as above. Tolerance: ±1mm.
- Size:
 

|          |                              |
|----------|------------------------------|
| SNP-B04X | : 85.0mm x 100.0mm x 35.0mm  |
| SNP-B06X | : 85.0mm x 130.0mm x 35.0mm  |
| SNP-B10X | : 85.0mm x 160.0mm x 35.0mm  |
| SNP-B15X | : 100.0mm x 190.0mm x 41.0mm |
| SNP-B20X | : 100.0mm x 210.0mm x 42.0mm |
| SNP-B30X | : 100.0mm x 230.0mm x 42.0mm |
- Din Rail Mounting Fixture:
 
- Packing:
 

|   |   |   |   |
|---|---|---|---|
| For SNP-B04X:   | Net weight: 280 g approx. / unit              | For SNP-B20X:   | Net weight: 750 g approx. / unit              |
| Gross weight: 14.8 kg approx. / carton, 40 units / carton | Carton size (mm): 578 (L) x 366 (W) x 271 (H) | Gross weight: 12.6 kg approx. / carton, 14 units / carton | Carton size (mm): 527 (L) x 322 (W) x 294 (H) |
| For SNP-B06X:   | Net weight: 345 g approx. / unit              | For SNP-B30X:   | Net weight: 1000 g approx. / unit             |
| Gross weight: 14.8 kg approx. / carton, 32 units / carton | Carton size (mm): 541 (L) x 392 (W) x 271 (H) | Gross weight: 13 kg approx. / carton, 10 units / carton   | Carton size (mm): 396 (L) x 341 (W) x 295 (H) |
| For SNP-B10X:   | Net weight: 510 g approx. / unit              |   |   |
| Gross weight: 13.2 kg approx. / carton, 20 units / carton | Carton size (mm): 458 (L) x 360 (W) x 264 (H) |   |   |
| For SNP-B15X:   | Net weight: 645 g approx. / unit              |   |   |
| Gross weight: 16.7 kg approx. / carton, 20 units / carton | Carton size (mm): 512 (L) x 376 (W) x 295 (H) |   |   |

### Output Specifications:

| MODEL NO. | OUTPUT RAIL | LOAD |        |        | VOLTAGE ACCURACY | RIPPLE NOISE | LINE REG. | LOAD REG. |
|-----------|-------------|------|--------|--------|------------------|--------------|-----------|-----------|
|           |             | MIN. | RATED  | PEAK   |                  |              |           |           |
| SNP-B045  | +18V        | 0A   | 2.2A   | 4.2A   | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B047  | +12V        | 0A   | 3.3A   | 6A     | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B048  | +15V        | 0A   | 2.7A   | 5A     | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B049  | +24V        | 0A   | 1.7A   | 3A     | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B065  | +18V        | 0A   | 3.3A   | 6.7A   | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B067  | +12V        | 0A   | 5A     | 8.5A   | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B068  | +15V        | 0A   | 4A     | 6.5A   | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B069  | +24V        | 0A   | 2.5A   | 5A     | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B105  | +18V        | 0A   | 5.6A   | 8A     | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B107  | +12V        | 0A   | 8.3A   | 12A    | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B108  | +15V        | 0A   | 6.7A   | 10A    | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B109  | +24V        | 0A   | 4.2A   | 6A     | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B155  | +18V        | 0A   | 8.3A   | 10.7A  | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B157  | +12V        | 0A   | 12.5A  | 16A    | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B158  | +15V        | 0A   | 10A    | 13A    | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B159  | +24V        | 0A   | 6.5A   | 8A     | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B205  | +18V        | 0A   | 11A    | 16.5A  | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B207  | +12V        | 0A   | 16.7A  | 25A    | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B208  | +15V        | 0A   | 13.3A  | 20A    | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B209  | +24V        | 0A   | 8.3A   | 10A    | ±2%              | 50mVpp       | ±1%       | ±1%       |
| SNP-B305  | +18V        | 0A   | 16.7A  | 26.7A  | ±2%              | 100mVpp      | ±1%       | ±1%       |
| SNP-B307  | +12V        | 0A   | 23A    | 37.44A | ±2%              | 100mVpp      | ±1%       | ±1%       |
| SNP-B308  | +15V        | 0A   | 18.5A  | 32A    | ±2%              | 100mVpp      | ±1%       | ±1%       |
| SNP-B309  | +24V        | 0A   | 11.66A | 15A    | ±2%              | 50mVpp       | ±1%       | ±1%       |

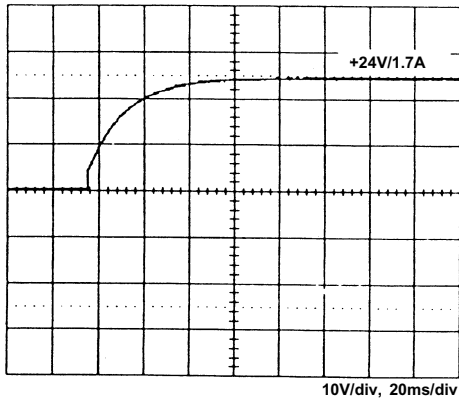
**Note:**

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.

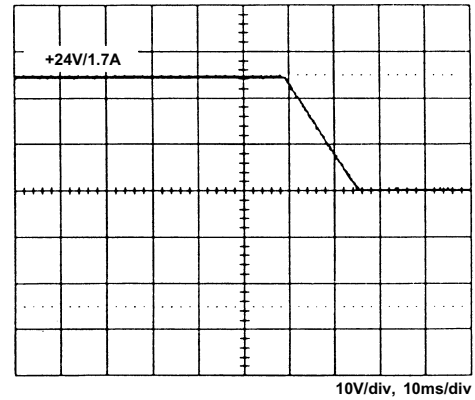
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## Performance for SNP-B049:

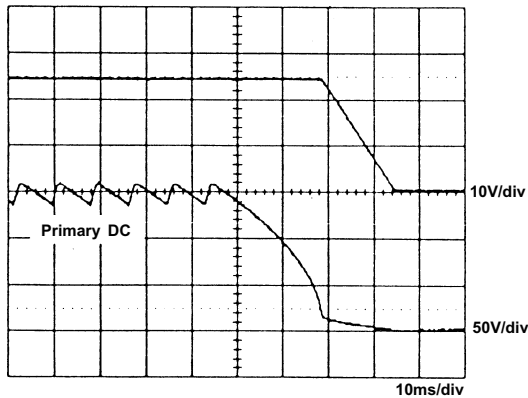
### 1. Output turn on wave form



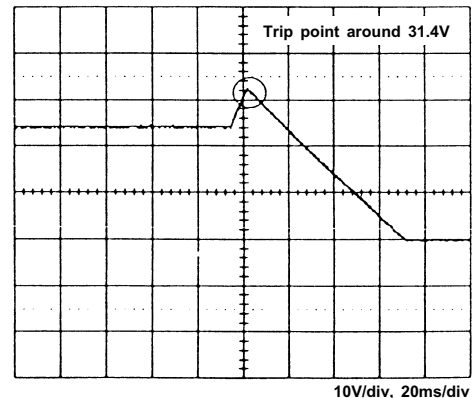
### 2. Output turn off wave form



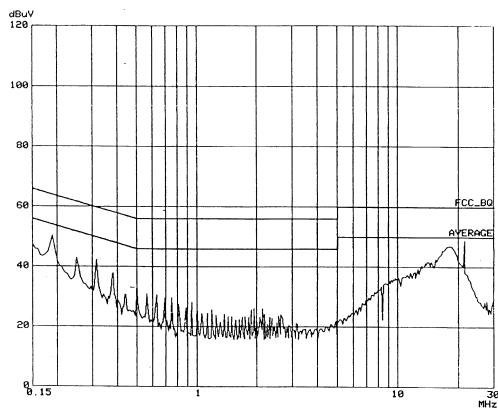
### 3. Hold-up time



### 4. Over voltage protection



### 5. FCC B



### 6. EN 55022 B

