



# Medical & ITE Switching Adapter

**Rated 40W**  
**Peak 60W**  
**SNP-AF4 Series**

2015 Q2



58 x 120 x 42 (mm)

### Features:

- Peak load (1.3 ~ 1.5 x rated current, Vo=rated for 5 sec)
- Design for BF application
- DoE Level VI Eco-design
- With ITE and Medical safety
- Safety class I / II and EMI class B
- -20°C to +60°C operating temperature
- 5,000m operation altitude

### Applications:

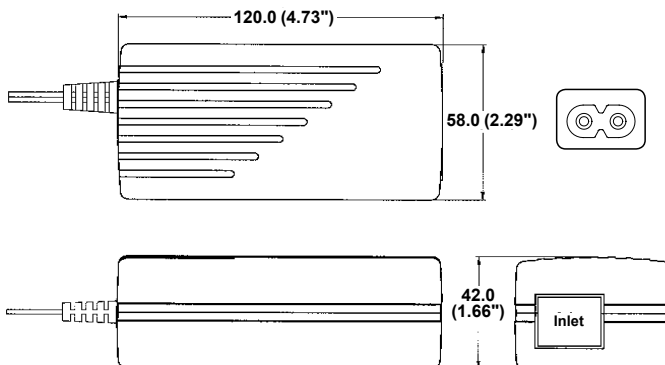
- For DoE EPS level VI energy saving application, such as electronics and office equipment.
- For EMI class B application, such as home healthcare device, monitors and other medical devices.
- For peak load application, such as motor drive, coffee machine, vending machine, gaming machine, monitors and other industrials.

### General Specifications:

Input voltage ..... 90 VAC to 264 VAC  
 Input frequency ..... 47 Hz to 63 Hz  
 Inrush current ..... < 80A at 230VAC  
 Average efficiency ..... > 87.7% at 25%, 50%, 75%, 100%  
 of rated load and 115Vac/230Vac input  
 No-load input power ..... < 75mW  
 Hold up time ..... 16ms typical  
 Over load/Short circuit protection ..... auto recovery  
 Over voltage protection ..... latch of  
 Operating temperature ..... -20°C to 60°C  
 derating: 2.5% / °C > 40°C

Storage temperature ..... -20°C to +85°C  
 EMI ..... FCC class "B"  
 CISPR 22 level "B"  
 Harmonics.....EN61000-3-2, class A  
 EMS..... EN61000-4-2,-3,-4,-5,-6,-8,-11  
 Safety ..... UL60601-1, UL60950-1  
 CSA C22.2 No. 60950-1(cUL)  
 TUV EN60601-1, EN60950-1  
 Energy Saving ..... EC Code of Conduct  
 for EPS Version (Tier 2)

### Mechanical Specifications:



#### Notes:

1. Size:  
58 x 120 x 42 (mm)
2. Connectors:  
AC input : IEC 320 C8  
DC output : Power Jack
3. Box Color : Black
4. Packing:  
Net weight: 300 g approx. / unit  
Gross weight: 16.5 kg approx. / carton, 48 units / carton  
Carton size (mm): 549 (L) x 490 (W) x 241 (H)



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### Output Specifications:

MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY				AVERAGE EFFICIENCY.
		MIN.	RATED	MAX.	PEAK		@ 25% LOAD	@ 50% LOAD	@ 75% LOAD	@ 100% LOAD	
SNP-AF47	+12V	0A	3.7A		4.8A	+11.9V~+12.1V	TBD	TBD	TBD	TBD	> 89
SNP-AF49	+24V	0A	1.9A		2.5A	+23.8V~+24.2V	TBD	TBD	TBD	TBD	> 89%

#### Note:

- Output Load:  
Rated 40W for convection cooling.
- Peak Load Duration:  
Peak 60W can last for 5 sec. especially suitable for motor starting.
- At peak load, the output can last for 5 seconds without shut down.
- At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
- Load regulation is defined by changing  $\pm 40\%$  of measured output load from 60% rated load.
- Ripple & noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.
- Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
- Efficiency is measured at rated load, and nominal line.