



72 x 145 x 42 (mm)

General Specifications:

Input voltage 90 VAC to 264 VAC
 Input frequency 47 Hz to 63 Hz
 Inrush current < 80A at 230VAC
 Average efficiency > 89% at 25%, 50%, 75%, 100%
 of rated load and 115Vac/230Vac input
 No-load input power < 0.15W
 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

Features:

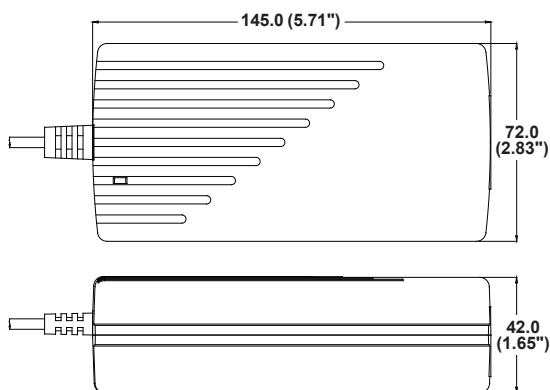
- Peak load (1.3 ~ 1.5 x rated current, Vo=rated for 5 sec)
- Design for BF application
- DoE Level VI Eco-design
- With ITE and Medical safety
- Safety class I / II and EMI class B
- -20°C to +60°C operating temperature
- 5,000m operation altitude

Applications:

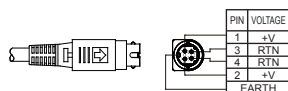
- For DoE EPS level VI energy saving application, such as electronics and office equipment.
- For EMI class B application, such as home healthcare device, monitors and other medical devices.
- For peak load application, such as motor drive, coffee machine, vending machine, gaming machine, monitors and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


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 UL/CSA/EN/IEC 62368-1, 2nd Ed.
 CSA C22.2 No. 60601-1(2014)
 EN60601-1, IEC 60601-1
 Energy Saving EC Code of Conduct
 for EPS Version (Tier 2)

Mechanical Specifications:



Notes:

1. Size:
72 x 145 x 42 (mm)
2. Output Connectors:


PIN	VOLTAGE
1	+V
3	RTN
4	RTN
2	+V
	EARTH
3. Input Socket:
 C14
4. Cable length is 1.5m approx.
5. Power ON indication LED is on top of Box.
6. Box Color is Black.
7. This product is RoHS compliant.
8. Packing:
 Net weight: 470 g approx. / unit
 Gross weight: 12 kg approx. / carton, 20 units / carton
 Carton size (mm): 503 (L) x 362 (W) x 300 (H) (mm)

Output Specifications:

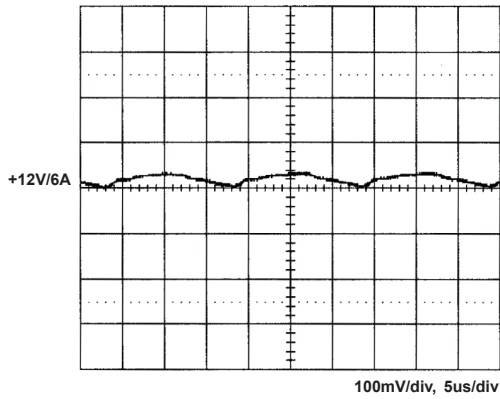
MODEL NO.	OUTPUT RAIL	LOAD				INITIAL ACCURACY	STEP EFFICIENCY				AVERAGE EFFICIENCY.
		MIN.	RATED	MAX.	PEAK		@ 25% LOAD	@ 50% LOAD	@ 75% LOAD	@ 100% LOAD	
SNP-AF87-3 SNP-AF87-H	+12V	0A	6A		8.4A	+11.4V~+12.6V	89%	89%	89%	89%	> 89%
SNP-AF89-3 SNP-AF89-H	+24V	0A	3.2A		4.6A	+22.8V~+25.2V	89%	89%	89%	89%	> 89%

Note:

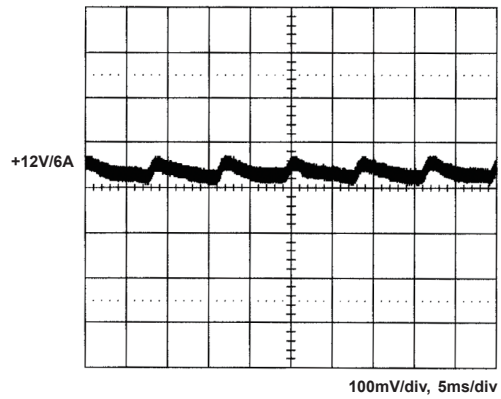
- Output Load:
Rated 72W~77W for convection cooling.
- At peak load, the output can last for 5 seconds without shut down.
- At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
- Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal 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.
- SNP-AF8x-H is for Home Healthcare.

Performance for SNP-AF87-3:

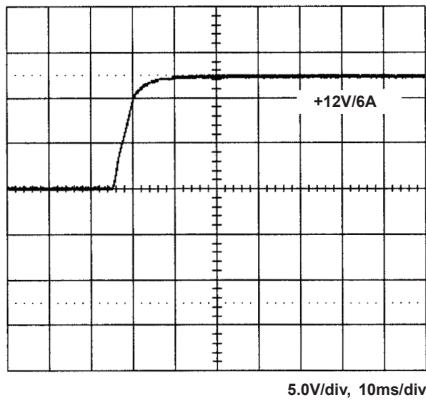
1. Switching frequency ripple



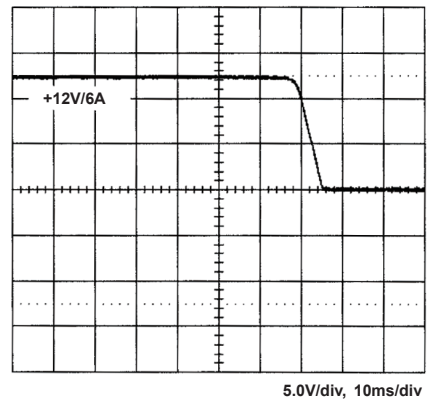
2. Line frequency ripple



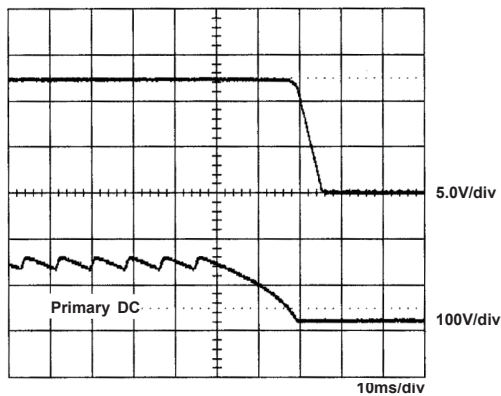
3. Output turn on wave form



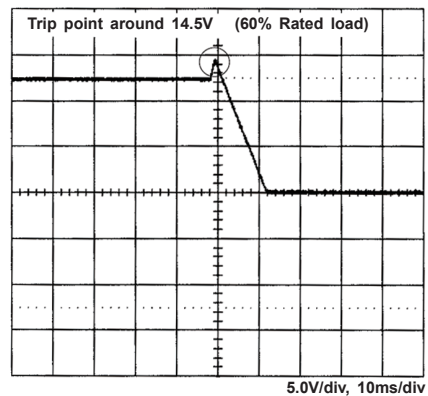
4. Output turn off wave form



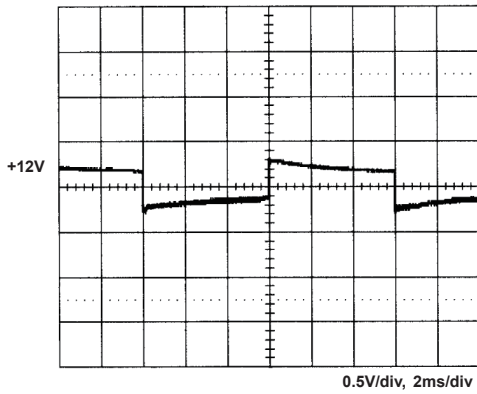
5. Hold-up time



6. Over voltage protection

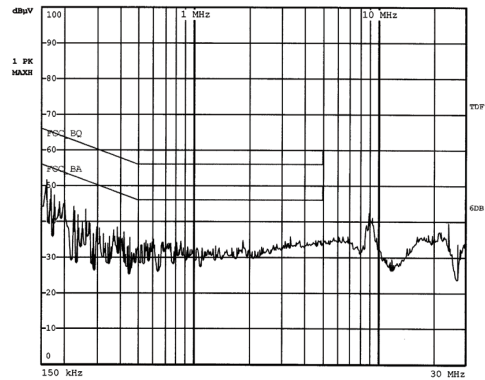


7. +12V step response

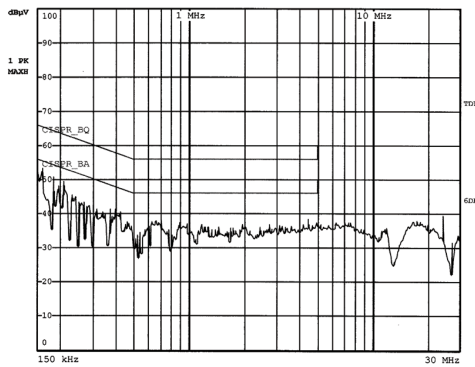


+12V step from 1.2A to 6A

8. FCC B



9. EN 55022 B



10. Power derating curve

