



2" x 4" x 0.97"

General Specifications:

Input voltage 90 VAC to 264 VAC
Input frequency 47 Hz to 63 Hz
Inrush current < 30A at 115VAC
(cold start at 25°C) or < 60A at 230VAC
Efficiency 85%~89% depends on models
Hold up time 16 ms typical
at rated load and 115VAC
Over load protection auto recovery
Short circuit protection..... auto recovery

Features:

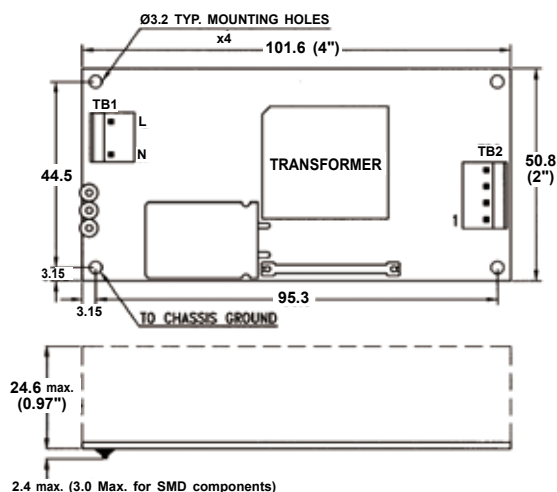
- 7.7 Watt per cubic inch
- Medical safety approved ; meet ITE safety
- Operation from -20°C to 70°C by convection

Applications:

- For dental, laboratory products, pumps, monitors, sleep apnea devices and many other uses.

Over voltage protection latch off
Operating temperature (open frame type) -20°C to 70°C
derating: 2.5% / °C > 50°C
Cooling 60W free air convection
Storage temperature -40°C to +85°C
EMI EN55022 "B", EN61000-3-3
Harmonics..... EN61000-3-2 class A
EMS..... EN61000-4-2,-3,-4,-5,-6,-8,-11
Safety UL/CSA/EN60950-1, 2nd edition
ANSI/AMMI/CSA/EN60601-1, 3rd edition

Mechanical Specifications:



Notes:

1. Size:
2" x 4" x 0.97"
2. Mounting Hole:
44.5 x 95.3 (mm)
3. Connectors:
AC input: Molex 5277-02A or equivalent
DC output: Molex 5273-04A or equivalent
4. Output Pin assignment:

1	2	3	4
V _o	V _o	GND	GND
5. Packing:
Net weight: 110 g approx. / unit
Gross weight: 14 kg approx. / carton, 100 units / carton
Carton size (mm): 420 (L) x 382 (W) x 277 (H)

Output Specifications:

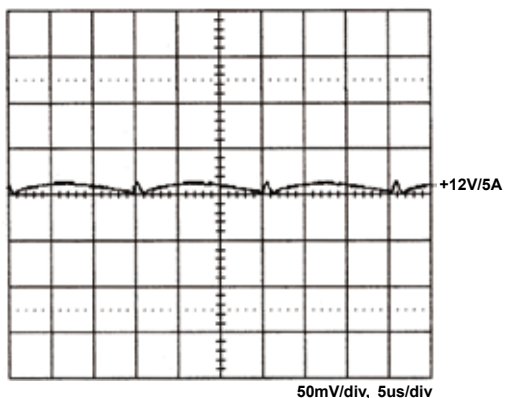
PRODUCT NO.	OUTPUT RAIL	LOAD				VOLTAGE ACCURACY	RIPPLE NOISE	LINE REG.	LOAD REG.
		MIN.	RATED	MAX.	PEAK				
SNP-H067 SNP-H067 -M	+12V	0A	5.00A		6.50A	+11.9V~+12.1V	120mVpp	±1%	±1%
SNP-H068 SNP-H068 -M	+15V	0A	4.00A		5.60A	+14.9V~+15.1V	100mVpp	±1%	±1%
SNP-H065 SNP-H065 -M	+18V	0A	3.33A		4.67A	+17.9V~+18.1V	150mVpp	±1%	±1%
SNP-H069 SNP-H069 -M	+24V	0A	2.50A		3.50A	+23.9V~+24.1V	150mVpp	±1%	±1%
SNP-H06G SNP-H06G-M	+28V	0A	2.14A		3.00A	+27.9V~+28.1V	150mVpp	±1%	±1%
SNP-H06J SNP-H06J -M	+36V	0A	1.66A		2.21A	+35.8V~+36.2V	200mVpp	±1%	±1%
SNP-H06T SNP-H06T-M	+48V	0A	1.25A		1.75A	+47.8V~+48.2V	250mVpp	±1%	±1%
SNP-H06H SNP-H06H-M	+60V	0A	1.00A		1.40A	+59.6V~+60.4V	300mVpp	±1%	±1%

Note:

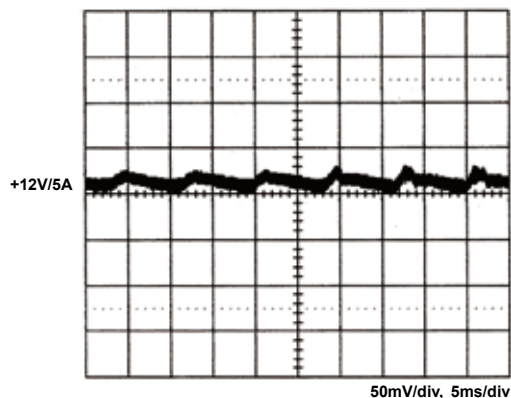
- Output Load:**
60W for convection cooling; 72W for forced air cooling.
- Peak Load Duration:**
Peak load can last for 5 sec.
- Isolation Grade:**
Primary ↔ Ground : 1MOPP (1500Vac)
Primary ↔ Secondary : 2MOPP (4000Vac)
Secondary ↔ Ground : 1MOPP (1500Vac)
- Leakage Current:**
Earth leakage current < 300uA
Touch current < 100uA
- EMI Grounding:**
If there is a metal sheet under the power supply, connect the EMI ground to that metal sheet.
- Model Selection:**
SNP-HF6x is for ITE application.
SNP-HF6x-M is for medical application.

Performance for SNP-H067-M (input voltage is 115VAC, unless others specified):

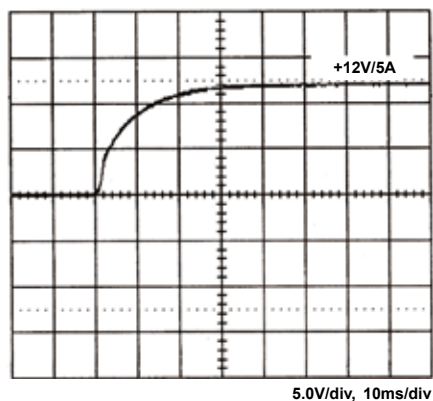
1. Switching frequency ripple



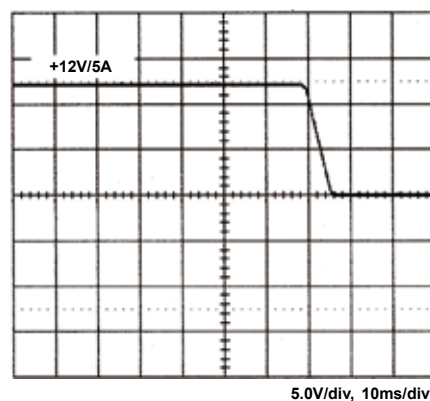
2. Line frequency ripple



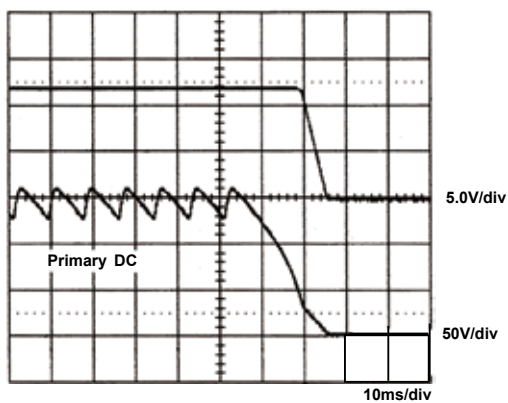
3. Output turn on wave form



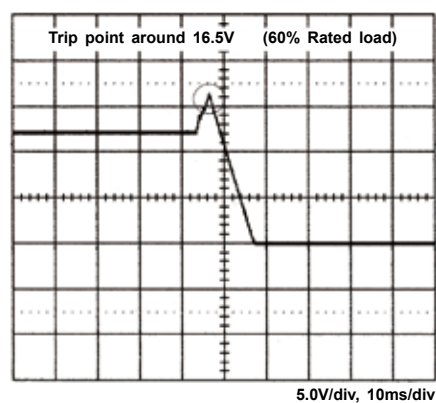
4. Output turn off wave form



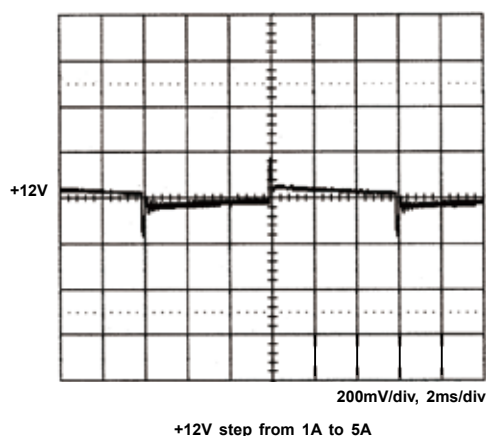
5. Hold-up time



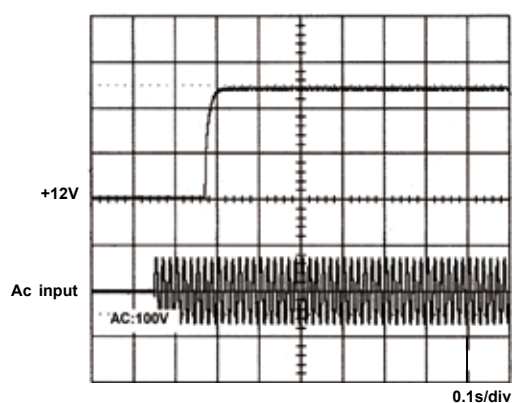
6. Over voltage protection



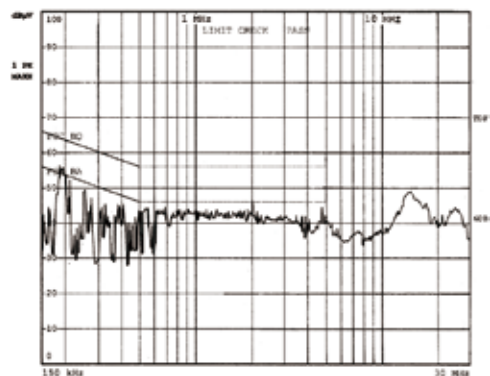
7. +12V step response



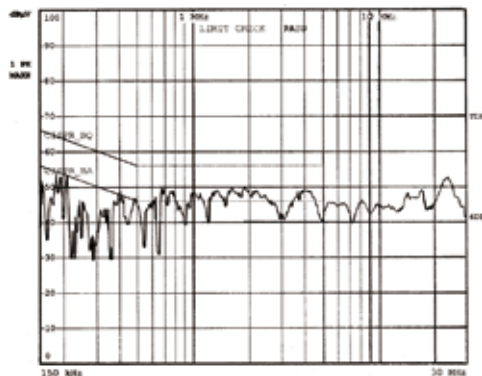
8. Start up time



9. FCC B



10. CISPR 22 B



11. Power Derating Curve

