SPECIFICATION

for

SWITCHING POWER SUPPLY

M/N: **SNP-A07T**

Check by Product Engineer	梁進榮 8-8-96					
Typed by Document Assistant	林鎮泰 080896					
SKYNET ELECTRONIC		LAST REV. NO. A07T-080896				

1.0 INTRODUCTIONS

SNP-A07T is a single output, universal input switching mode power supply. It is specially designed for external desk top application.

2.0 INPUT SPECIFICATIONS

2.1 Input Voltage

The range of input voltage is from 90VAC to 260VAC.

2.2 Input frequency

The range of input frequency is from 47Hz to 63Hz.

2.3 Input current

The maximum input current is 1.5A at 115VAC or 0.8A at 230VAC.

2.4 Inrush current

The inrush current is less than 30A at 115VAC input or 60A at 230V AC input , cold start, 25 °C.

3.0 OUTPUT SPECIFICATIONS

3.1 Load range

output	min. load	rated load	peak load	voltage accuracy
+48V	0A	1.5A		45.6Vto 50.4V

The adjustable range of +48V output is around 45.6V to 50.4V. At factory, the output is adjusted to 48V+/-1% in 60% rated load conditions.

3.2 Ripple and noise

The peak to peak ripple and noise is less 200mV. Measuring is done by a 15 MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load.

3.3 Line regulation

The line regulation for each output is less than +/-1% while measuring at rated load and +/-10% of input voltage change.

3.4 Load regulation

The load regulation, is less than +/-5%, measuring is done by changing the measured output load +/-40% from 60% rated load.

4.0 GENERAL FEATURES

4.1 Efficiency
The efficiency is higher than 70% while measuring at 115VAC and rated load.

4.2 Hold up time
The hold up time is longer than 16mS at 115VAC input and rated load, which is measured from the end of the last charging pulse to when the main output drops down to 95% output voltage.

4.3 Protection
4.3.1 Over voltage protection
For some reasons the power supply might fail to control itself, the build-in over voltage protection circuit will shut down the outputs to prevent damaging external circuits. The trip point of crowbar circuit is around 53V to 60V.

4.3.2 Short circuit protection
The power supply will go into hiccup mode against short circuit or over load conditions, and will auto-recovery while faulty conditions are removed.

5.0 ENVIRONMENT SPECIFICATIONS

5.1 Operating temperature
0°C to 40°C

5.2 Storage temperature
-40°C to 85°C

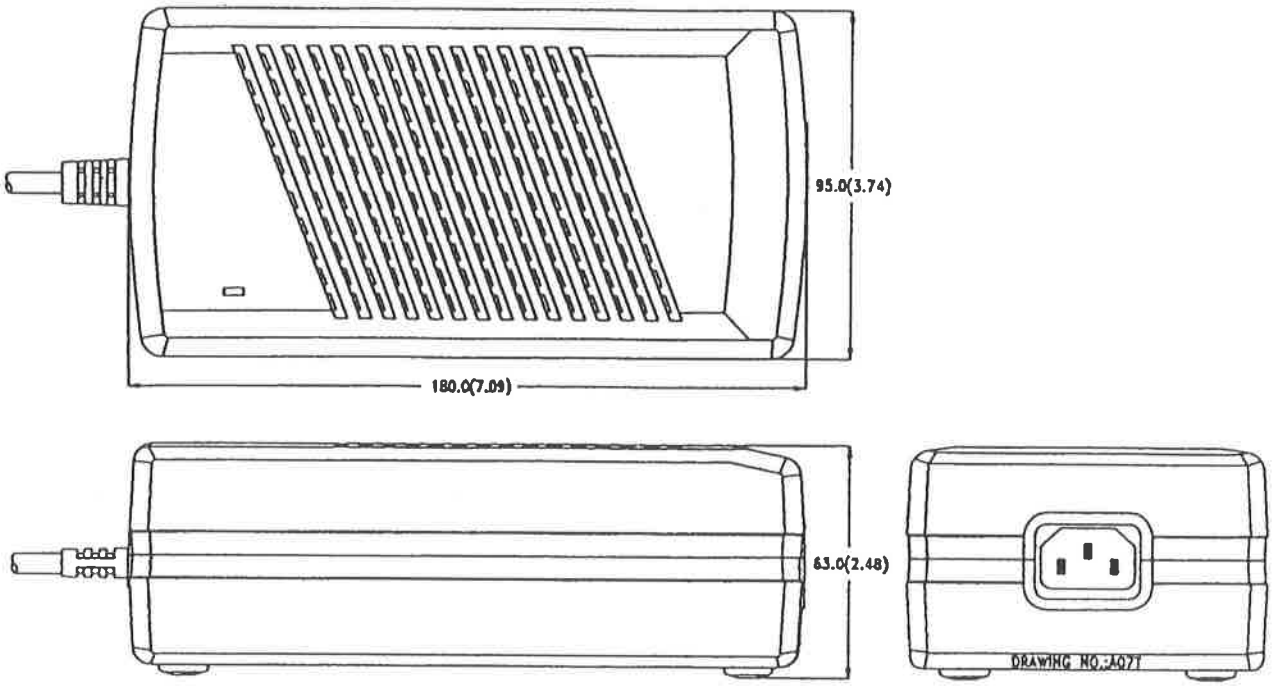
6.0 INTERNATIONAL STANDARDS

6.1 Safety standards
Designed to meet the following standards :
UL 1950
CSA 22.2 NO.234
VDE EN 60 950

6.2 EMI standards
Designed to meet the following limits :
FCC docket 20780 curve "B"
EN55022 CLASS "B"
EN60555-2

6.3 EMS standards
IEC 801-2 Level 4: 8KV (contact)
IEC 801-3 Level 2: 3V/m
IEC 801-4 Level 3: 2KV
IEC 801-5 Level 3: 2KV

7.0 MECHANICAL SPECIFICATION



7.1 Dimensions

Dimensions shown in mm (inch) as above.
Tolerance specified is +/-1mm (Excluding DC wire harness)

7.2 Connectors

AC Inlet : IEC 320 inlet
DC Output : DC power jack

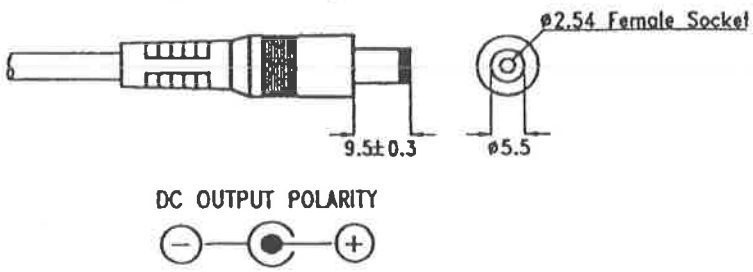
7.3 Power on indicator

Green light on top of Box

7.4 Color

Black

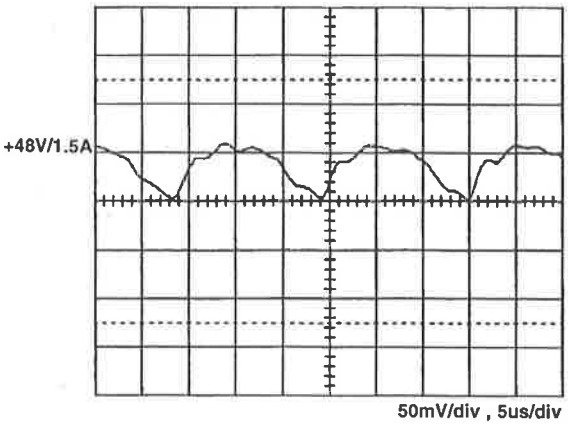
7.5 DC power jack specification : (See drawing below)



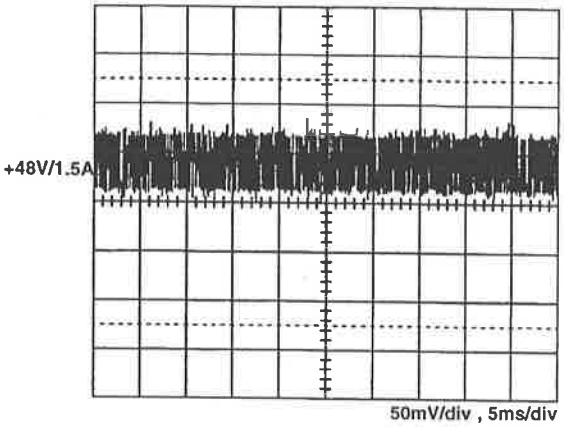
* The length of wire is 180+/-10cm measured from the edge of case.

8.0 PERFORMANCE (input voltage is 115VAC , unless others specified.)

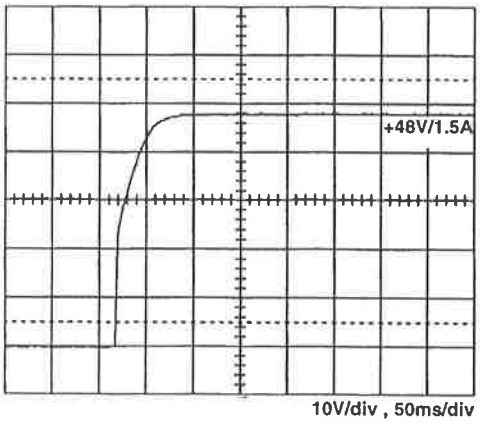
8.1 Switching frequency ripple



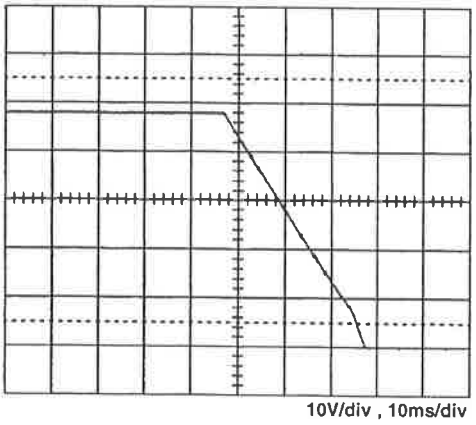
8.2 Line frequency ripple



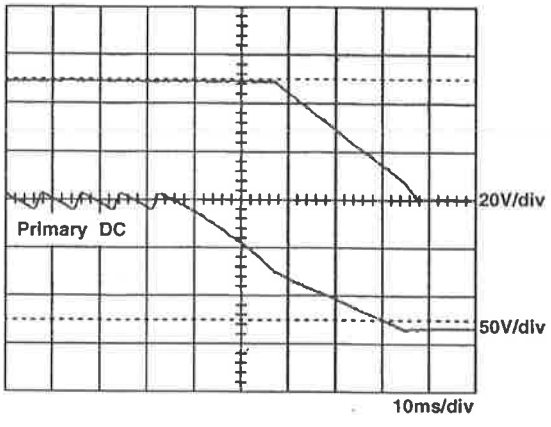
8.3 Output turn on wave form



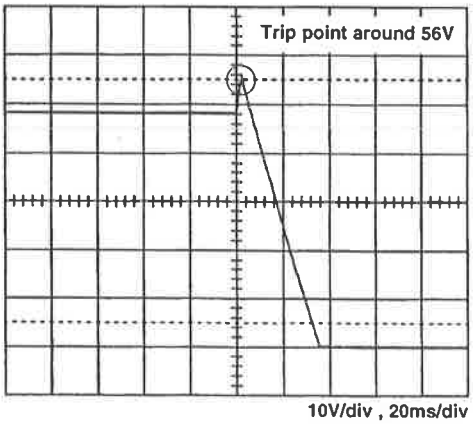
8.4 Output turn off wave form



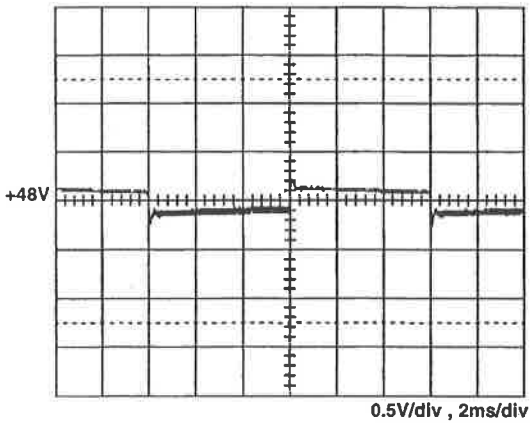
8.5 Hold-up time



8.6 Over voltage protection

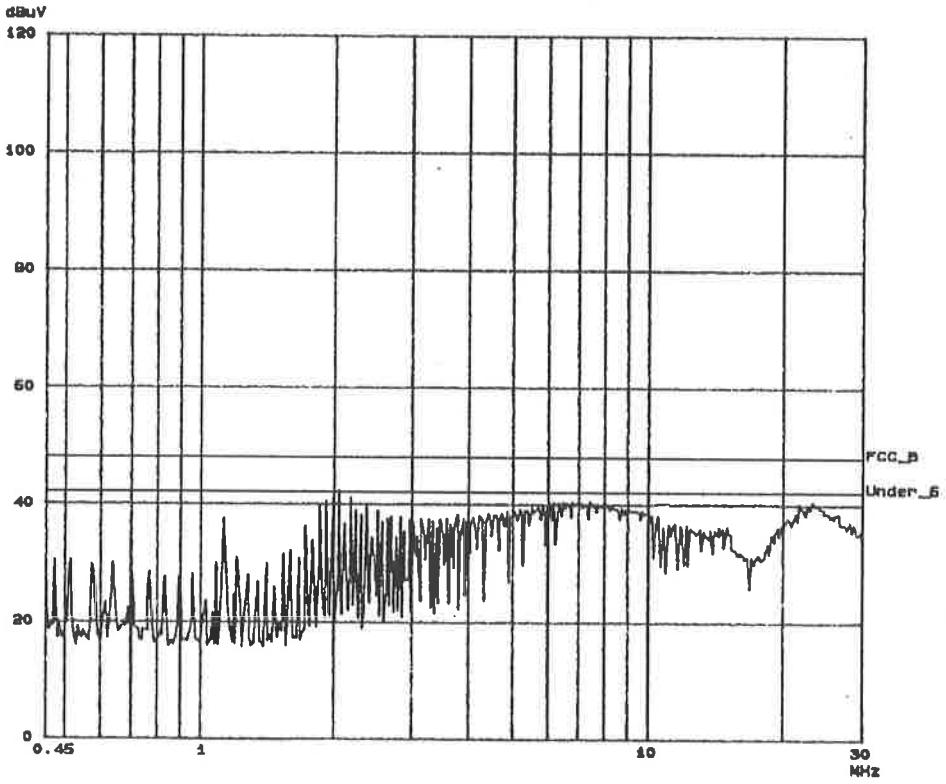


8.7 +48V step response

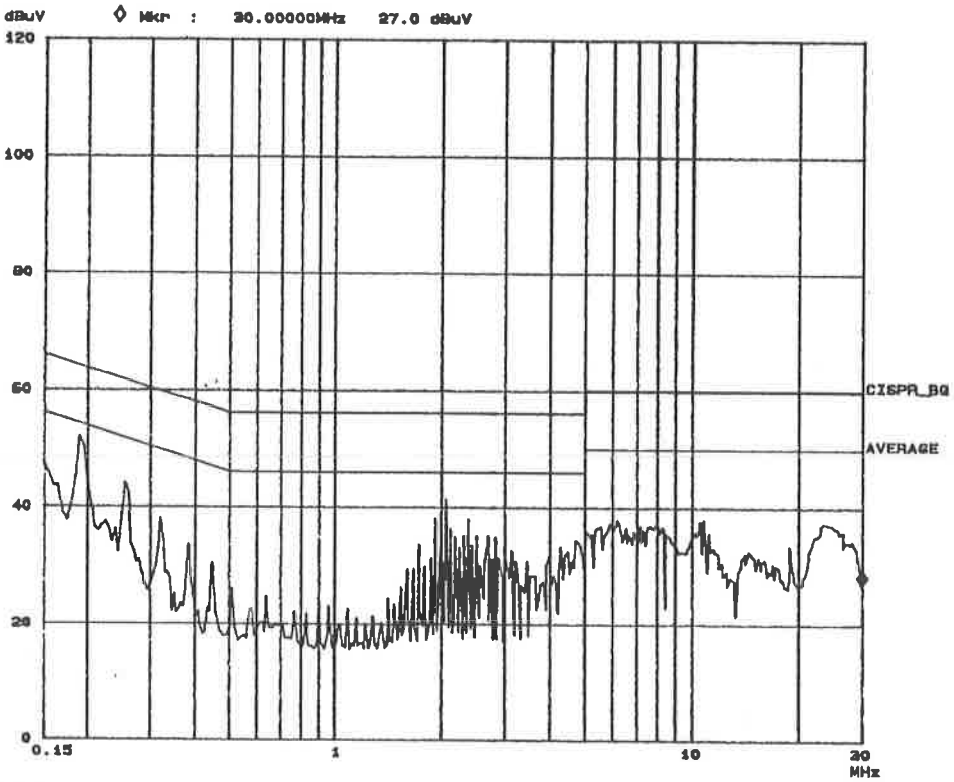


+48V steps from 0.3A to 1.5A

8.8 FCC B performance

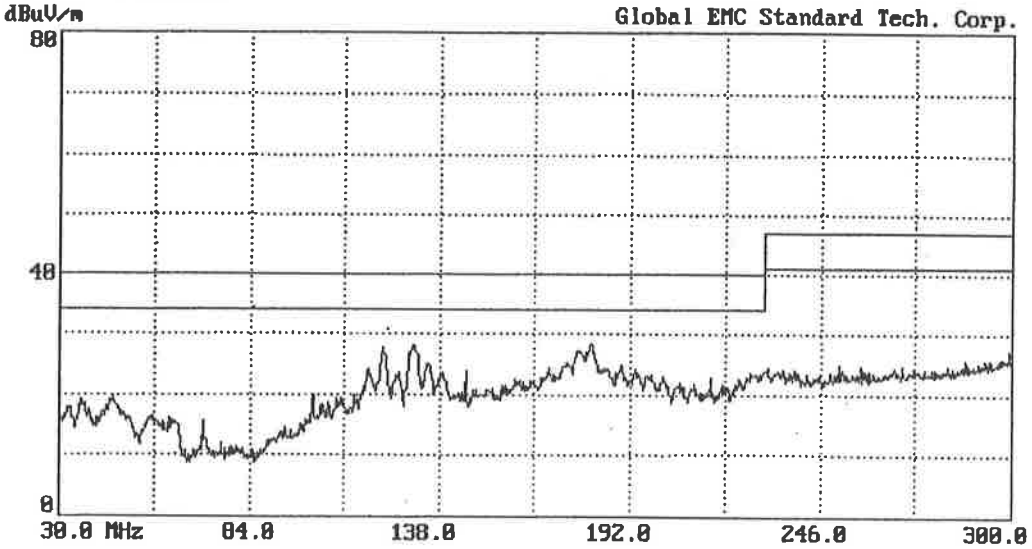


8.9 CISPR 22 class B

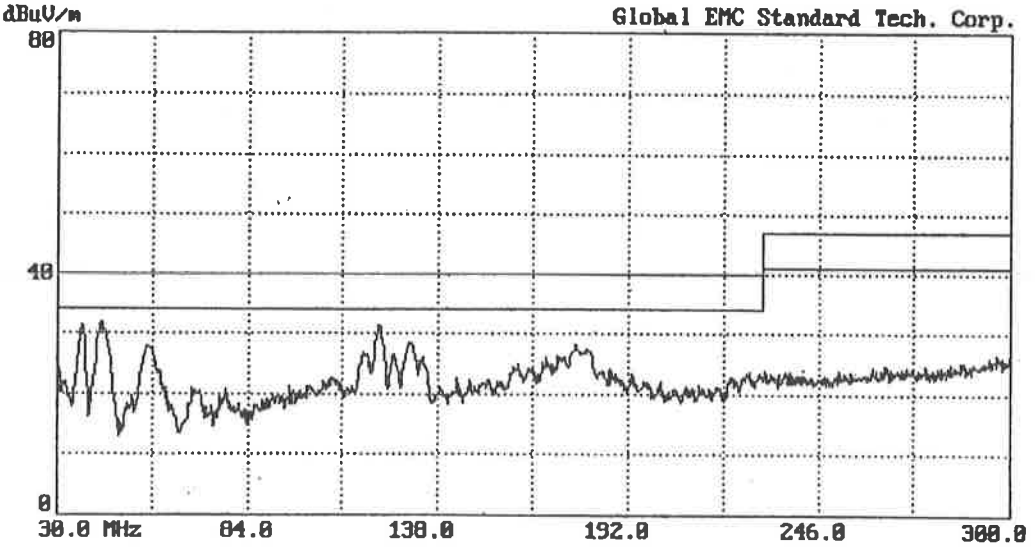


8.10 Performance of EMI (Radiation)

File#: STEVCHEN.EI - 316 Sweep
Site : Skynet
Limit: CISPR CLASS-B 3m
EUT :
Power: SNP-A07T
Note : R/D9622051
Date : 06-27,1996 Thu Time: 09:30:06 am
Probe : 3110B Horizontal
Margin: 6 dB
Std :
Trace :



File#: STEVCHEN.EI - 317 Sweep
Site : Skynet
Limit: CISPR CLASS-B 3m
EUT :
Power:
Note :
Date : 06-27,1996 Thu Time: 09:31:26 am
Probe : 3110B Vertical
Margin: 6 dB
Std :
Trace :



8.11 Performance of EMI (Radiation)

File#: STEVCHEN.EI - 318 Sweep Date : 06-27,1996 Thu Time: 09:45:08 am
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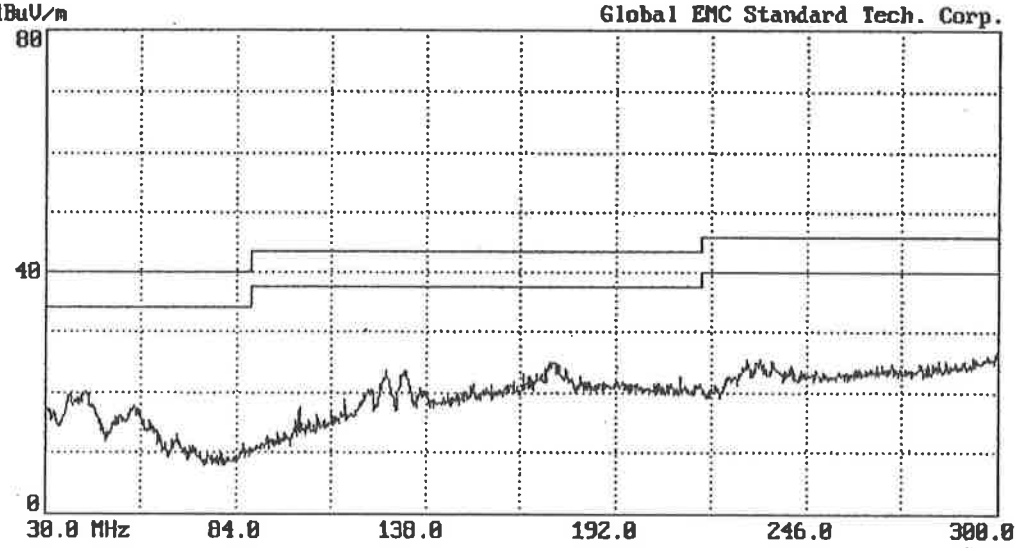
Limit: FCC CLASS-B 3m Margin: 6 dB
EUT : Std :
Power: Trace :
Note :
dBuV/m Global EMC Standard Tech. Corp.



File#: STEVCHEN.EI - 319 Sweep Date : 06-27,1996 Thu Time: 09:46:27 am
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Limit: FCC CLASS-B 3m Margin: 6 dB
EUT : Std :
Power: SNP-A07T Trace :
Note : R/D9622051
dBuV/m Global EMC Standard Tech. Corp.