

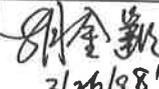
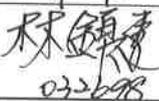
SNP-A079 SPECIFICATION

SPECIFICATION

for

SWITCHING POWER SUPPLY

M/N: SNP-A079

Reviewed by Project Manager	 3/26/98					
Typed by Document Assistant	 032698					
SKYNET ELECTRONIC		LAST REV. NO. A079-033198				



## 1.0 INTRODUCTION

SNP-A079 is a single output, universal input switching mode power supply. It is specially designed for external desk top application. It is designed to meet UL / CSA / TUV / VDE regulations and EN55022 EMI.

## 2.0 INPUT SPECIFICATION

### 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 2A at 115VAC or 1A at 230VAC.

### 2.4 Inrush current

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

## 3.0 OUTPUT SPECIFICATION

### 3.1 Load range

output	min. load	rated load	peak load	voltage accuracy
+24V	0A	3.2A		23V to 25V

The adjustable range of +24V output is around 23V to 25V. At factory, the output is adjusted to 24V + -1% in 60% rated load conditions.

### 3.2 Ripple and noise

The peak to peak ripple and noise is less 100mV. Measuring is done by a 15MHz 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 changing.

### 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 FEATURE

### 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. Th trip point of crowbar circuit is around 26V to 31V.

#### 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"

EN 55022 class B

EN 60555-2

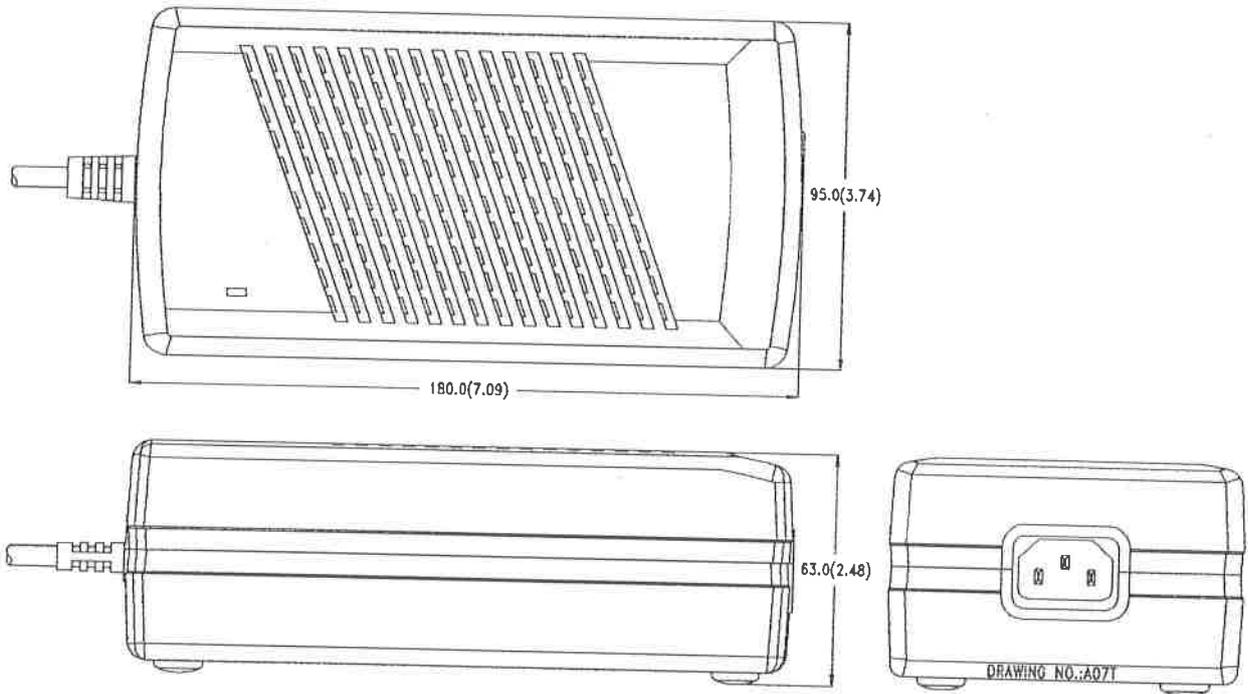
### 6.3 EMS standards

IEC 801-2 8KV (air discharge)

IEC 801-3 3V/m

IEG 801-4 0.5KV

7.0 MECHANICAL SPECIFICATION



7.1 Dimensions

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

7.2 Connectors

AC input : IEC 320 inlet.  
 DC output : DC power jack

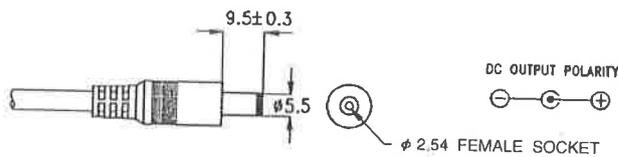
7.3 Power on indicator

Green light on the top of Box.

7.4 Color

Black

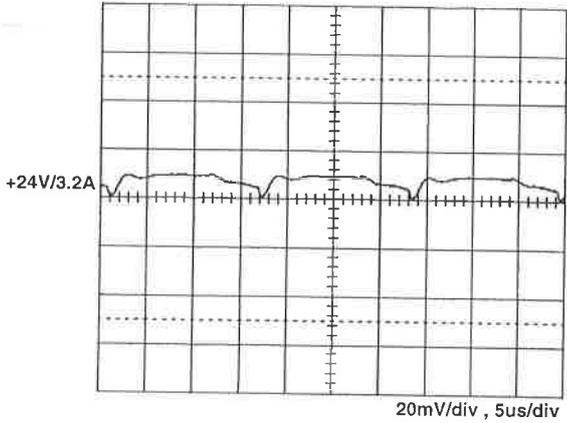
7.5 DC power jack specification : (See drawing below)



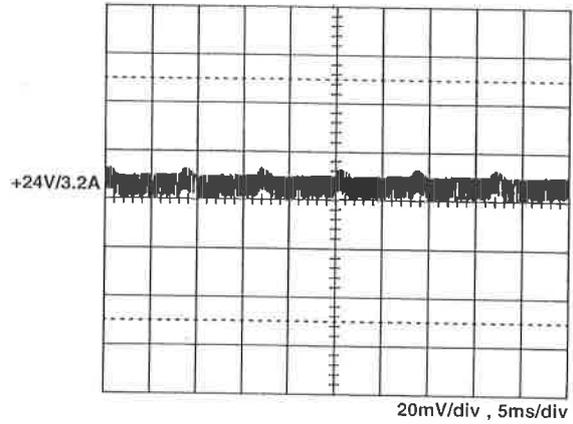
\* The length of wire is 180 + -10cm measured from the edge of case.

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

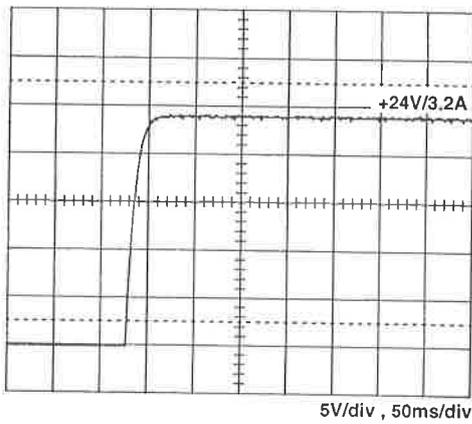
8.1 Switching frequency ripple



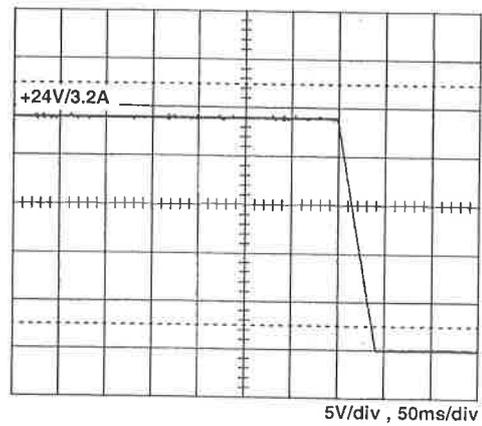
8.2 Line frequency ripple



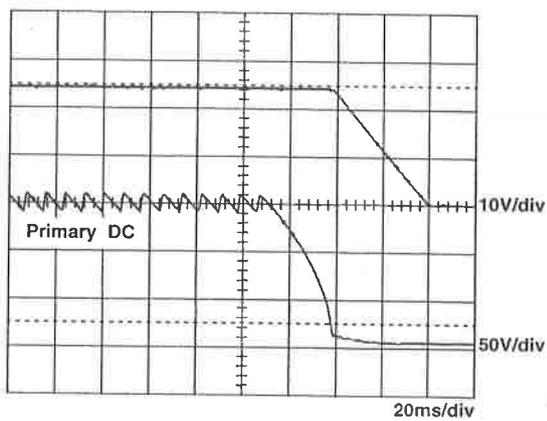
8.3 Output turn on wave form



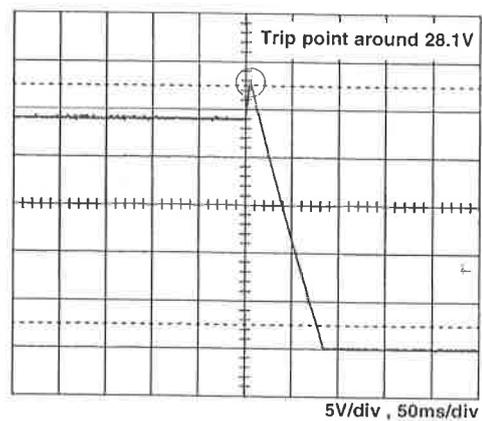
8.4 Output turn off wave form



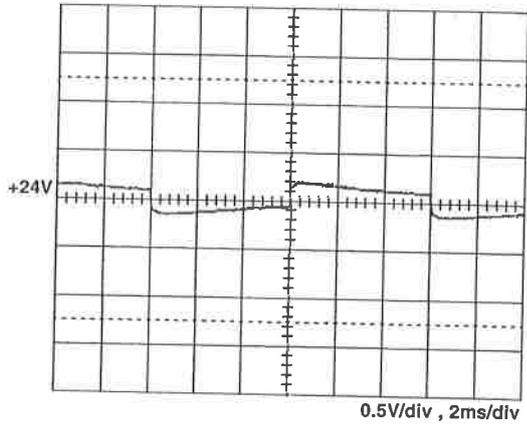
8.5 Hold-up time



8.6 Over voltage protection

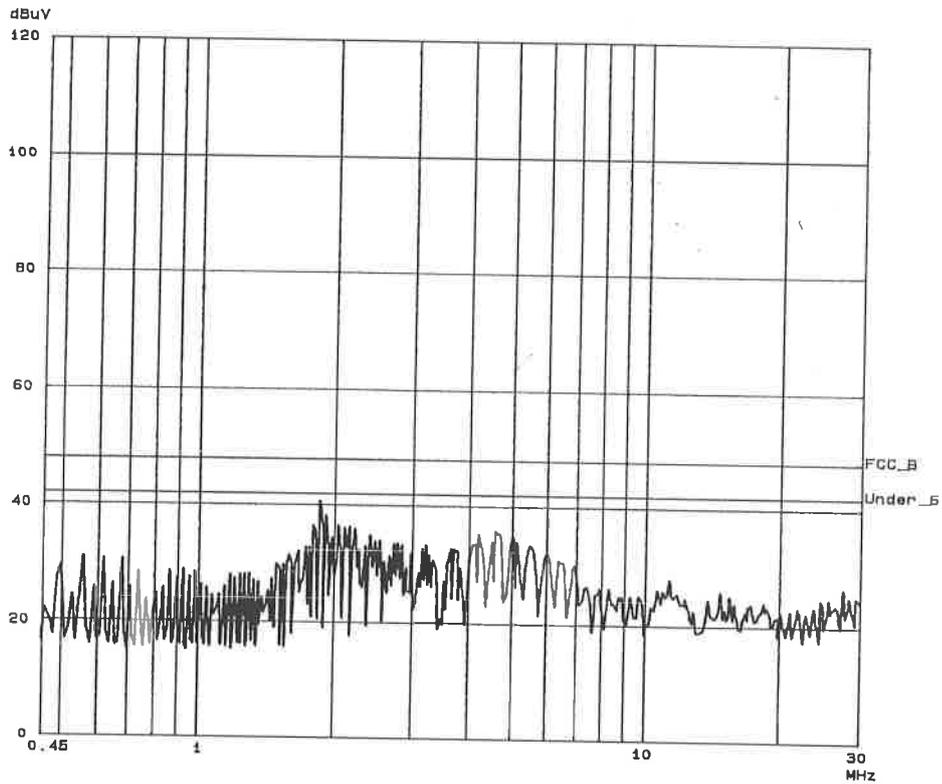


8.7 +24V step response



+24V steps from 0.64A to 3.2A

### 8.8 FCC B performance



### 8.9 EN 55022 class B

