



***SPECIFICATION FOR APPROVAL***  
***Power Adapter***

**DESCRIPTION: Input:100~240V AC 50/60Hz Output: 24VDC5A**

**OUR MODEL NO: 8710-24V**

**SAMPLE NO: \_\_\_\_\_ DATE: 2017-06-01**

**SAMPLE COLOR: Black**



**White**





## 1、 DESCRIPTION:

The purpose of the document is to specify the functional requirements of a 120W switching power supply.

## 2、 INPUT CHARACTERISTICS:

### 2.1 Input Voltage:

Rated Voltage:100~240Vac

Variation Range:90-264Vac

### 2.2 Input Frequency:

Rated Frequency: 50/60Hz.

Variation Frequency:47-63Hz

### 2.3 Input Current:

2.8Amps max At any input voltage and rated, DC output rated load.

### 2.4 Inrush Current:

30 Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.

### 2.5 AC Leakage Current:

0.25mA Max.At 240Vac input.

### 3、 OUTPUT CHARACTERISTICS:

#### 3.1 Power output

Voltage	Min. Load	Rated. Load	Peak	Output power
24Vdc	0.00A	5.0A	180W	120W

#### 3.2 Combined Load/Line Regulation

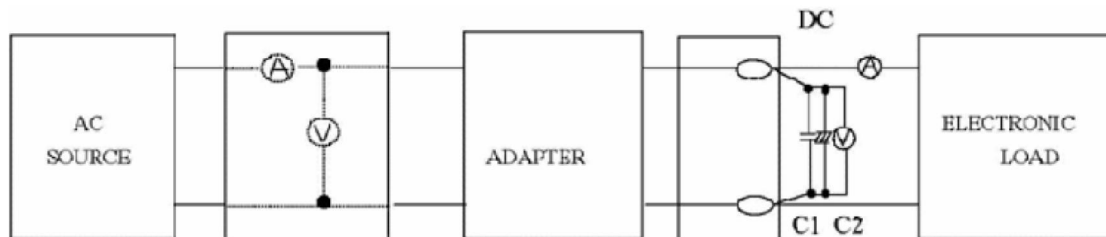
Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
24Vdc	0.00A	5.0A	±1%	±5%

#### 3.3 Ripple and Noise:

Under nominal voltage and nominal load, the ripple and noise are as follows when measure with Max. Bandwidth of 20MHz and Parallel 47uF/0.1uF, crossed connected at testing point.

Voltage \_\_\_\_\_ Ripple and Noise(Max.)

+24Vdc                      300 mV p-p



C1: 0.1uF CERAMICS CAPACITOR  
C2: 10uF 50V ALUMINUM CAPACITOR

#### 3.4 Turn on delay time:

3Second Max.at 115Vac input and output Max.load.

#### 3.5 Rise time:

40 mS Max.at 115Vac input and output Max load.

#### 3.6 Hold up time:

5 mS Min.at 115Vac input and output Max.Load.



### 3.7 Efficiency:

87% Min, At 115/230Vac input voltage, 1/4 , 1/2 , 3/4 and full load calculation average efficiency.

### 3.8 Overshoot

15%Max, When power supply at turn or turn off.

## 4、 PROTECTION FUNCTION:

### 4.1 Short circuit test:

The power supply will be auto recovered when short circuit faults remove.

### 4.2 Over current Protection:

The power supply will be auto recovered when over current faults remove.

### 4.3 Over Voltage Protection:

The power supply will auto recovered when faults remove 120%~170%.

## 5、 ENVIRONMENTAL REQUIREMET:

### 5.1 Operating Temperature:

0°C to 40°C, Full load, Normal operation.

### 5.2 Storage Temperature: -20°C to 80°C

### 5.3 Relative Humidity:

5%(0°C)~90%(40°C)RH, 72Hrs, Full load, Normal operating.

### 5.4 Vibration:

#### 5.4.1.

Operating: IEC 721-3-3 3M3

5~9Hz, A=1.5mm

(9~200Hz, Acceleration 5m/S<sup>2</sup>)



**MECHANICAL REQUIREMENT:**

Enclosure: L172mm × W73mm × H41mm.

