



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

**DESCRIPTION:** Input:100~240V AC 50/60Hz    Output: 12VDC10A

**OUR MODEL NO:** 8710-12V

**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
12Vdc	0.00A	10.0A	180W	120W

#### 3.2 Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
12Vdc	0.00A	10.0A	±1%	±5%

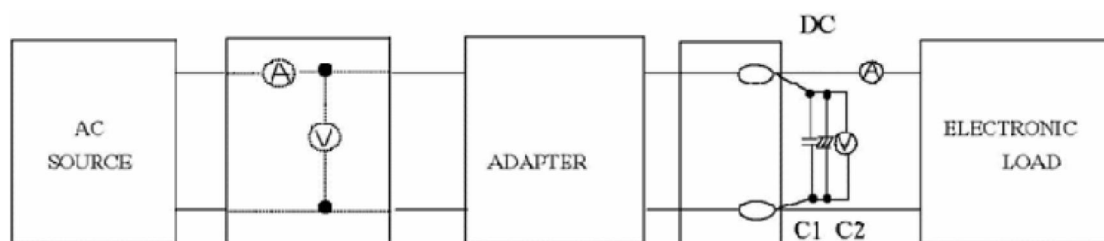
#### 3.3 Ripple and Noise:

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

Voltage Ripple and Noise(Max.)

+12Vdc

200 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:

86% 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.

