SPECIFICATION FOR APPROVAL
Switching power Supply

CUSTOMER:______________________________

DESCRIPTION: Input: 220V ~60Hz Output: DC 12V 5A

OUR MODEL NO: BSG-60W1205000

SAMPLE NO:_____________ DATE: 2022.06.10

SAMPLE COLOR: Black ☐ White ☐

APPROVAL SIGNATURE

/APPROVED BY | CHECKED BY | TESTED BY


Manufacturer

/Sales | /APPROVED BY | /DESIGNED BY
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1. DESCRIPTION:

The purpose of the document is to specify the functional requirements of a 60W switching power supply.

2. INPUT CHARACTERISTICS:

2.1 Input Voltage:

   Rated Voltage: 220Vac
   Variation Range: 90-264Vac

2.2 INPUT FREQUENCY:

   Rated Frequency: 50/60Hz.
   Variation Frequency: 47-63Hz

2.3 INPUT CURRENT:

   0.5Amps 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

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Min. Load</th>
<th>Rated. Load</th>
<th>Peak</th>
<th>Output power</th>
</tr>
</thead>
<tbody>
<tr>
<td>12Vdc</td>
<td>0.00A</td>
<td>5A</td>
<td>90W</td>
<td>60W</td>
</tr>
</tbody>
</table>

3.2 Combined Load/Line Regulation

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Min. Load</th>
<th>Rated. Load</th>
<th>Line Regulation</th>
<th>Voltage range</th>
</tr>
</thead>
<tbody>
<tr>
<td>12Vdc</td>
<td>0.00A</td>
<td>5A</td>
<td>±5%</td>
<td>11.4V-12.6V</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Ripple and Noise(Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+12Vdc</td>
<td>200mV p-p</td>
</tr>
</tbody>
</table>

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 Average Efficiency

Average Efficiency 87% Min, At 115/230Vac input and output 100% Load 75% Load 50% Load 25% Load.
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 REQUIREMENT:**

5.1 **Operating Temperature:**
- 0°C to 40°C, Full load, Normal operation.

5.2 **Storage Temperature:** -20°C to 80°C
- With package

5.3 **Relative Humidity:**
- 5%(0°C)~90%(40°C)RH, 72Hrs, Full load, Normal operating.

5.4 **Vibration:**

1. **Operating:** IEC 721-3-3 3M3
   - 5-9Hz, A=1.5mm
   - (9-200Hz, Acceleration 5m/S2)

2. **Transportation:**
   - IEC 721-3-2 2M2
   - 5-9Hz, A=3.5mm
   - 9-200Hz, Acceleration=5m/S2
   - 200-500Hz, Acceleration=15m/S2
3. Axes, 10 cycles per axis.
   No permanent damage may occur during testing.

   The SAMPLE has to restore to its original situation after power off/on.

5.5 Dropping Packed:

1M for wallmount type and 760mm for desktop type as above described.

The horizontal surface consists of hardwood at least 13mm thick, mounted on two layers of plywood
   each 19mm to 20mm thick, all supported on a concrete or equivalent non-resilient floor.

6. **SAFETY REQUIREMENT:**

6.1 Safety: KC K 60950-1 (2011-12)

6.2 **DIELECTRIC STRENGTH Hi-Pot:**
   Primary to secondary: 3000Vac10mA/3S for type test.

6.3 **Insulation resistance:**
   Primary to secondary: 10MΩ min at 500V DC.

6.4 **EMI STANDARD**
   <1>. Fcc part15 class B rules
### MECHANICAL REQUIREMENT:

#### 7.1 Enclosure:

**The power supply size:** 122.3*51.9*34.6 mm;
8. CORD:

技术要求
1. 外皮黑色, 长度1200mm±50mm。
2. 导电线芯红色, 银色; 标准20AWG。
3. SR要求: 5+7mm, 扎线要求如图示。
<table>
<thead>
<tr>
<th>Our model: BSG-60W1205000</th>
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<td>Customer:</td>
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<td>Date: 2022.06.10</td>
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<td>SAMPLE No:</td>
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### 9. LABEL:

![Label Image](image_url)

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전기공급의표시사항

<table>
<thead>
<tr>
<th>제품명: AC/DC ADAPTER</th>
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<tbody>
<tr>
<td>모델명: BSG-60W1205000</td>
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<tr>
<td>정격 입력: 220V–60Hz 1.5A</td>
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<tr>
<td>정격 출력: 12V = 5A</td>
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</tbody>
</table>

제조사: SHENZHEN TECHNOLOGY CO., LTD

MSIP-REM-BxG-BSG-60W1205000

![Safety Icons](image_url)

MADE IN CHINA
ICbanQ Inc.
Tel: 82-070-7019-3947 Email: Tommy@icbanq.com

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10、/PACKING: 50pcs