SPECIFICATION FOR APPROVAL
Switching power Supply

CUSTOMER: ____________________________________________

DESCRIPTION: Output: DC12V1.5A

OUR MODEL NO: BSG-1201500

SAMPLE NO: ___________ DATE: 2017-2-28

SAMPLE COLOR: Black [✓] White [ ]

<table>
<thead>
<tr>
<th>APPROVAL SIGNATURE/</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPROVED BY</td>
</tr>
<tr>
<td>_____</td>
</tr>
</tbody>
</table>

Manufacturer

| SALES | APPROVED BY | DESIGNED BY |
|_____ | _____ | _____ |
ICbanQ Inc.
Tel:82-070-7019-3947 Email:Tommy@icbanq.com

Our model: BSG-1201500
Date: 2017-2-28

<table>
<thead>
<tr>
<th>Rev.</th>
<th>Date</th>
<th>Description</th>
<th>Design</th>
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<tbody>
<tr>
<td>V1.0</td>
<td>2017-2-28</td>
<td></td>
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1. **DESCRIPTION:**

   The purpose of the document is to specify the functional requirements of a 18W 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:**

      0.3Amps max At any input voltage and rated, DC output rated load.

   2.4 **INRUSH CURRENT:**

      50 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>1.5A</td>
<td>1.5A</td>
<td>18W</td>
</tr>
</tbody>
</table>

3.2 Combined Load/Line Regulation

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Min. Voltage</th>
<th>Max. Voltage</th>
<th>Line Regulation</th>
<th>Load Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>12Vdc</td>
<td>11.4V</td>
<td>12.6V</td>
<td>±1%</td>
<td>±5%</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 the testing point.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Ripple and Noise(Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+12Vdc</td>
<td>120mV 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 88Min, At 115/230Vac input and output 100%Load  75%Load  50%Load  25%Load Adapter meet efficiency Level VI
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℃ to 40℃, Full load, Normal operation.
   5.2 Storage Temperature:-20℃ to 80℃
   With package
   5.3 Relative Humidity:
   5%(0℃)~90%(40℃)RH, 72Hrs, Full load, Normal operating.
   5.4 Vibration:
      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: accord with UL/CUL-(UL60950-1), TUV/GS-(EN60950-1), CCC-(GB4943), PSE-(J60950-1), KC-(K60950-1)

6.2 DIELECTRIC STRENGTH Hi-Pot:
   Primary to secondary: 3000Vac 10mA/3S for type test.

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

6.4 EMI STANDARD
   Meets the Limits of
   <1>. FCC part15 class B rules
   <2>. EN55022 class B rules
7. **MECHANICAL REQUIREMENT:**

7.1 **Enclosure:**

The power supply size: **75 x 30 x 40mm**;
8. **CORD:**

![Diagram of a cable with three connectors and labels](image_url)

<table>
<thead>
<tr>
<th>L=1.05M</th>
<th>2464</th>
<th>20#0.5</th>
<th>5.5<em>2.1</em>10mm</th>
</tr>
</thead>
</table>

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**ICbanQ Inc.**
Tel: 82-070-7019-3947 Email: Tommy@icbanq.com
9. **PACKING:**