₩ 华兴变压器制造厂有限公司 WAH HING TRANSFORMER MFY. LTD.

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SPECIFICATION FOR APPROVAL

| Customer: Ivent Solutions I | Limited | | | |
|--|-------------------|-------------|-------------------|--|
| Customer P/N: | | Customer F | Rev.: C | |
| Customer Model No.: | | Customer I | D: I051 | |
| Wah Hing Model No.: S0172 | 22A | Wah Hing I | Rev.: 03 | |
| Article: SWITCHING POWER SUPPLY(AC-DC) | | | | |
| Standard: AS/NZS60950-1 | | Safety No.: | | |
| Catalog No.: EFS00600500100AU | | Date: | 14-May-19 | |
| <i>Remarks:</i> <i>Please note items listed in page.2 that requires your consent for deviation.</i> | | | | |
| HH Eng. Dept. 刘忠洁 | Eng. Dept. 易文彬 | | Eng. Dept. 钟桂平 | |
| Designed/Maker | Checked by | | Approved by | |
| | | | | |

Please evaluate the samples, sign this approval sheet and return to WAH HING

☐ Approved

☐ Rejected

Conditional Approved

Comments:

Customer Approved by :

Signature & Date

Deviation and History

Please note items listed below does not meet your specifications and requires your consent for deviation:

| | | Item | Customer specifica | tion | Su | ggestion specifica | ation |
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| | | 03 | Page10 Rating plate: Amendment of nameplat | te Size | | Z.J.LIU | 22-Aug-19 |
| | | 02 | Page10 Rating plate: C-Tick change to RCM | logo. | | Z.J.LIU | 14-May-19 |
| | | 01 | Page10 Label add C-Tick N1138 and CE,CH | B Logo. | | J.G.Ma | 27-Feb-14 |
| | | 00 | First issue. | | | J.G.Ma | 06-Aug-13 |
| Ite | em | Rev | Descriptio | | | Sign | Date |
| | | | | History | | | |
| Cust | tomer | P/N: | | Wah Hing M | Iodel No.: | S01722A | |

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| Customer P/N: | Wah Hing Model No.: | S01722A |
|---------------|---------------------|---------|

1.0 INTRODUCTION

The document specifies the AC/DC switching power supply with one output, the total output power is 5 W Max. The unit meet ROHS directive of the European Union. The unit meet Energy Star V.

2.0 INPUT CHARACTERISTICS

| 2.0 INFOT CHARACTERISTICS 2.1 Input Voltage | : | | Performance guarantee |
|--|--------|----------------------------|--|
| Input Voltage Range | : | AC90-264V | |
| 2.2 Input Current | : | 0.4Arms max. | @ AC100-240 V full load |
| 2.3 Operating Frequency Operating Frequency Range | : | 50-60 Hz 47-63Hz | |
| 2.4 Standby Power | | ≪0.3W | @ AC115-230 V 50/60Hz |
| 2.5 Input Fuse | : | 10Ω 1W fusib | ble resistor |
| 2.6 Input Connector | : | SAA Plug | |
| 3.0 OUTPUT CHARACTERISTICS | | | |
| 3.1 Output Voltage | : | | @ AC100-240 V at 0A |
| | : | DC5.0V+/-5% | @ AC100-240 V at 1000mA |
| 3.2 Output Current | | | |
| Rated loading current | : | 1000 mA | |
| Minimum loading current | : | 0 A | |
| 3.3 Ripple and Noise | : | 200 mV _{p-p} max. | . @ AC100-240 V full load Ambient temp. 25℃ |
| The measurement for differer oscilloscope, with 20MHz ba a 0.1uF ceramic capacitor sho | ndwic | lth. A 47uF elect | he output will be using trolytic capacitor and |
| | Julu U | | uipui 10au. |
| | | | |
| Customer P/N: | Wah | Hing Model No.: | S01722A |

| 3.4 Efficiency | : | 68.17 % min. | @ AC115/230V | |
|---|----------|--------------------|---------------------|-----------|
| After temperature is saturated terminals. | , mea | surement be ma | de at USB output | |
| 3.5 Line Regulation | : | ±1 % | @ AC100-240 V | full load |
| 3.6 Load Regulation | : | ±5% | @AC100-240V | 50/60Hz |
| 3.7 Hold-up Time | : | 10mS min | @ AC100 -240V | full load |
| When the power supply turns up more than 10mS. | s off tl | ne output voltage | e shall hold | |
| 3.8 Start up time | : | 3S max | @AC100-240V | 50/60Hz |
| During turn on output voltage more than 10% and all output 3seconds of turn on | | | | |
| 4.0 PROTECTION FUNCTION 4.1 Over-current Protection | : | 1.4A min | @AC100-240V | 50/60Hz |
| The power supply shall be hiccup condition (set@ MIN 1.4A) und time the power supply shall be a | ler any | v line condition f | for an indefinite p | eriod of |
| 4.2 Short circuit protection | : | | | |
| The power supply shall be hicc any output operating in over ter for an indefinite period of time the fault condition is removed. | npera | ture conditions u | inder any line con | ditions |
| | | | | |
| Customer P/N: | Wah | Hing Model No.: | S01722A | |

4.3 Over Temperature Protection :

The power supply shall be hiccupped and no damage be occurred when any output operating in over temperature conditions under any line conditions for an indefinite period of time. The power supply shall be auto recovered when the fault condition is removed.

5.0 ENVIRONMENTAL CONDITION

| 5.1 Non-operation 5.1.1 Ambient temperature | | -20-70 ℃ |
|--|---|----------|
| 5.1.2 Relative humidity | : | 20-80 % |

The power supply shall be capable of withstanding the above environmental conditions for extended periods of time, without sustaining electrical and/or mechanical damage and subsequently operational deficiencies.

5.2 Operating

| 5.2.1 Ambient temperature | : | 0-45 ℃ |
|---------------------------|---|---------|
| 5.2.2 Relative humidity | : | 20-80 % |

The power supply shall be capable of operating continuously in any mode without performance deterioration in the above environmental condition.

| 6.0 SAFETY AND EMC STANDARD 6.1 Safety standard | : | AS/NZS60950-1 |
|--|--------|------------------------------|
| 6.2 EMC Standard | : | CISPR22 Class B |
| 6.3 Immunity to electrostatic discha | arge(H | ESD) according : EN61000-4-2 |
| Customer P/N: | Wah | Hing Model No.: S01722A |

| 6.4 Immunity to radiated electromagnetic field according • FN61000-4-3 | | | | |
|---|--|--|--|--|
| 6.4 Immunity to radiated electromagnetic field according : EN61000-4-3 | | | | |
| 6.5 Immunity to electrical fast transients(burst) according : EN61000-4-4 | | | | |
| 6.6 Surge capability according : EN61000-4-5 | | | | |
| 6.7 Immunity to conducted disturbances, induced by radio frequent fields according : EN61000-4-6 | | | | |
| 6.8 Immunity to voltage dips short interruptions and voltage variations, test according : EN61000-4-11 | | | | |
| 6.9 Dielectric strength | | | | |
| Primary to secondary : AC3000V 60S Cut off current 5mA | | | | |
| 6.10 Insulation Resistance Primary to secondary: DC500V 60S 10MΩ MIN | | | | |
| 7.0 RELIABILITY AND QUALITY CONTROL 7.1 Burn-in 7.1.1Burn-in Ambient temperature : 40 ℃ | | | | |
| 7.1.2 Burn-in Time : 2-4 hr. | | | | |
| AC source 230Vac/50Hz, 80-100% loading. | | | | |
| 7.2 Drop Test | | | | |
| Dropped the specimen from 1M height, 1 times each for a different sides onto a concrete floor at least 64 mm thick and covered with a 3.2 mm thick vinyl tile. There shall be no problem on appearance, structure, perfor- mance and safety. | | | | |
| 7.3 MTBF | | | | |
| Adapter's MTBF is 50000Hr,at condition of input AC230V 50Hz / output DC 1.0A load / environmental temperature 25 $^{\circ}$ C. | | | | |
| | | | | |
| Customer P/N: Wah Hing Model No.: S01722A | | | | |

8.0 MECHANICAL

8.1 Case Material:Plastic8.2 Case Dimension:L65.0*W28.0*H52.0mm8.3 Case Colour:White

:

:

:

- 8.4 Weight(Adaptor unit)
- 8.5 Input AC Cable8.5.1 Input plug type
- 8.6 Output terminal8.6.1 Output terminal

75g (about)

SAA Plug

USB type A (Short circuit Pin2,Pin3)



8.7 Dimensions And Diagram







Notice:

- 1. Unit: mm
- 2. Tolerance: X:+/-1.0; X.X:+/-0.3; X.XX:+/-0.10

3. 09605(XXXXX) is date code Oct is A Nov is B Dec is C

<u>09 6 05</u>

Year: 2009 Date: 05 Month:June, 1-9:Jan-Sep, A-C: Oct-Dec

Customer P/N:

Wah Hing Model No.: S01722A



