SPECIFICATION FOR APPROVAL

CUSTOMER: ________________________________________________

DESCRIPTION: I.T.E. POWER SUPPLY  REV:  (A0)

MODEL NO: HK-AB-120A250-CP6  PART NO: HKSC-160768

DESIGNED NO: 160768-0714  DATE: JUL.14th.2016

<table>
<thead>
<tr>
<th>CUSTOMER APPROVED SIGNATURES</th>
<th>VENDOR APPROVED SIGNATURES</th>
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<tbody>
<tr>
<td></td>
<td>經理 2016.07.14 田青松</td>
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<tr>
<td></td>
<td>課長 2016.07.14 歐陽建瓊</td>
</tr>
<tr>
<td></td>
<td>繪圖員 2016.07.14 羅珍珍</td>
</tr>
<tr>
<td>REV</td>
<td>DATE</td>
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<tr>
<td>A0</td>
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**CUSTOMER**

**DATEREV**

**QR-工-26A**

**SPECIFICATION CHANGE HISTORY**

**DESCRIPTION REMARKS**

**PART NO**

**REVMODEL NO**

**STRUCTURAL ELECTRICAL ENGINEER APPROVAL:**

<table>
<thead>
<tr>
<th>SAFETY APPROVAL:</th>
<th>ELECTRICAL</th>
<th>STRUCTURAL</th>
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<tr>
<td>張偉松</td>
<td>欧陽建瓊</td>
<td>王霖鵬</td>
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<tr>
<td></td>
<td>潘 中</td>
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</tbody>
</table>
CONTENTS

1. INTRODUCTION
2. INPUT REQUIREMENTS
3. OUTPUT REQUIREMENTS
4. EFFICIENCY
5. LINE REGULATION
6. HOLD UP TIME
7. TURN ON TIME
8. TEMPERATURE COEFFICIENT
9. DIELECTRIC STRENGTH (Hi-Pot) TEST
10. INSULATION RESISTANCE
11. PROTECTION
12. ENVIRONMENTAL CONDITIONS
13. EMI/EMC
14. RELIABILITY AND QUALITY CONTROL
15. SAFETY
16. OVERALL DRAWING
17. USE SPECIFICATION
18. PACKING
19. MARKING
20. TEST REPORT
1.0 INTRODUCTION
This document specifies a switching power supply with a output of +12V, and electronic process. The switching power supply will provide power for technology equipments including electrical business equipment. The adaptor meets the requirement of lead free and RoHS.

2.0 INPUT REQUIREMENTS
2.1 Input Voltage Range: 100(-10%)VAC to 240(+10%)VAC
2.2 Input Frequency Range: 47 Hz to 63 Hz
2.3 Input Power Consumption at no-load: 0.1W Max
2.4 Input In-rush Current: 50A Max
2.5 Input Current: 0.8A Max

3.0 OUTPUT REQUIREMENTS
3.1 Output Voltage: +12V
3.2 Output Regulation: 11.4-12.6V
3.3 Output Load Range: 2.5A
3.4 Output Ripple & Noise: 240mV Max @20MHz bandwidth with 10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: ≥ 86.94% @ average of 25/50/75/100% loads 115V&230VAC input

5.0 LINE REGULATION: ±2% maximum

6.0 HOLD UP TIME: 10ms Min at 110VAC full load.

7.0 TURN ON TIME: 2S Max at 110VAC full load.
8.0 **TEMPERATURE COEFFICIENT:** 0.05%/°C

9.0 **DIELECTRIC STRENGTH (Hi-Pot) TEST**

9.1 Primary to Secondary: AC 3000Vrms, 4 mA, 1 minute for type test, 2 second for production test.

10.0 **INSULATION RESISTANCE**

Primary to secondary: 50M OHM to 500VDC.

11.0 **PROTECTION**

11.1 Input Protection

The switching power supply has a 2 Amps inner current fuse to protect itself.

11.2 Output Protection

11.2.1 Output Current:

Overload conditions shall decrease the output voltage. Removal of an overload shall provide automatic recovery for the output voltage.

11.2.2 Short Circuit Protection: Auto Recovery.
12.0 **ENVIRONMENTAL CONDITIONS**

The switching power supply can withstand the following environmental conditions:

12.1 **Storage Temperature**:

-20 °C ~ +70 °C

Relative Humidity: 10% ~ 95%

12.2 **Operation Temperature**:

0 °C ~ 40 °C

Relative Humidity: 10% ~ 95%

13.0 **EMI / EMC**

The switching power supply has approved by the following standards:

- **FCC PART 15 Class B**
  - J55022(H22) J3000(H25) GB17625.1-2012; GB 9254-2008
- **EN61000-3-2:2014 IEC61000-4-4:2012**
- **EN61000-3-3:2013 IEC61000-4-5:2014**
- **EN55024:2010 IEC61000-4-8:2009**
- **IEC61000-4-2:2008 IEC61000-4-11:2004**

14.0 **RELIABILITY AND QUALITY CONTROL**

14.1 **Burn-in**

The burn-in test will be performed at least 2 hours at 40 centigrade degrees under full load condition.

14.2 **MTBF**

When the operation is complying with this specification, the switching power supply's MTBF will be 50,000 hours at 25 centigrade degrees.

15.0 **SAFETY**

The switching power supply has approved by the following safety standards:

- **UL 60950-1, 2nd Edition,2014-10-14**
- **EN60950-1:2006+A11+A1+A12+A2 BS EN60950-1:2006+A2**
- **AS/NZS 60950.1:2015 GB4943.1-2011**
- **J60950-1(H27)**
16. OVERALL DRAWING

UNIT: mm

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**DESCRIPTION:** I.T.E. POWER SUPPLY

**MODEL NO.:** HK-AB-120A250-CP6

**PART NO.:** HKSC-160768

**ISSUED DATE:** 2016.07.14

**REV:** (A0)

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**NOTES:**

- 35-J: without strengthening rib
- 8 way connector
- Printing safety word
- Printing safety word white stripe
- CAUTION: RISK OF ELECTRIC SHOCK
- DRY LOCATION USE ONLY
- POUR UTILISATION À L'INTÉRIEUR SEULEMENT
- ATTENTION:

---

**DIMENSIONS:**

- 52±1
- 36±1
- 101±1
- 6.0FT MIN

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Ideal Power, 14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England EX32 7NZ  
Web: www.idealpower.co.uk  email: sales@idealpower.co.uk  TEL +44 (0) 845 2603400  Fax +44 (0) 845 2603401
UNIT: mm

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>HK-AB-120A250-CP6</th>
<th>PAGE NO.</th>
<th>6 OF 12</th>
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<tbody>
<tr>
<td>PART NO.</td>
<td>HKSC-160768</td>
<td>ISSUED DATE:</td>
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DESCRIPTION: I.T.E. POWER SUPPLY

UNIT: mm

8.1±0.3
8.1±0.3
8.1±0.3
8.1±0.3
8.1±0.3
8.1±0.3
8.1±0.3
8.1±0.3
17. USE SPECIFICATION

WARNING!
Please don't insert article alone at the wall.

Instruction manual card

Ideal Power, 14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England EX32 7NZ
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17. PACKING

17.1 Inner Box

UNIT: mm

| Material: A 卡 400 磅 (0.53t) White |

NOTICE:
Its probably different from the white box of the sample and the figure dimension. The white box is used to pack during product.

注意: 樣品使用的小白盒尺寸可能與此圖面尺寸不同, 此圖面尺寸是用于生產時的包裝.
17. PACKING

17.2 Carton

UNIT: mm

MODEL: HK-AB-120A250-CP6
PART NO.: HKSC-160768
DESCRIPTION: I.T.E. POWER SUPPLY

Q'TY: 60PCS

N.W.: 100V~120V
G.W.: 100V~240V
200V~240V

MODEL:
N. W. :
G. W. :
Q' TY: 60PCS

335
445
310

(Transverse Plane)
(Lateral Plane)
### 18. MARKING

**200# CPC** 合成紙+上光 NAME-PLATE: WHITE CHARACTERS BLACK BACKGROUND.

**UNIT:** mm

<table>
<thead>
<tr>
<th>月</th>
<th>年</th>
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<tbody>
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<th>38.5±0.0</th>
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<tbody>
<tr>
<td>31.5±0.0</td>
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**I.T.E. POWER SUPPLY**

**MODEL:** HK-AB-120A250-CP6

**OUTPUT:** 输入: 12V...2.5A

**INPUT:** 输出: 100-240V...50/60Hz...0.8A...63VA

**15.3±0.1**

**CAUTION:**

**RISK OF ELECTRIC SHOCK**

**DRY LOCATION USE ONLY**

**ATTENTION:**

**POUR UTILISATION À L'INTERIEUR SEULEMENT**

**C4.0**

**CASE**

**NAME-PLATE:** BLACK CHARACTERS WHITE BACKGROUND.

<table>
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<th>15.5±0.1</th>
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**MANUFACTURED BY:** 凤冠电机(深圳)有限公司

**MANUFACTURED IN:** CHINA

**MMYYC**

**REV:** (A0)

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