<table>
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<tr>
<th>Description</th>
<th>Ext. PSU</th>
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<td>Model Number</td>
<td>25HK-U-120A050-CP-3A</td>
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<tr>
<td>Revision</td>
<td>A0</td>
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<tr>
<th>CUSTOMER APPROVED SIGNATURES</th>
<th>VENDOR APPROVED SIGNATURES</th>
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<thead>
<tr>
<th>經理</th>
<th>工程師</th>
<th>繪圖員</th>
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<tbody>
<tr>
<td>田青松</td>
<td>2014.05.22</td>
<td>歐陽建煌</td>
</tr>
<tr>
<td></td>
<td></td>
<td>何寶玲</td>
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<td>繪圖員</td>
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<td>A0</td>
<td>14.05.22</td>
<td>新發行承認書; (New issue)</td>
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### SPECIFICATION CHANGE HISTORY

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<th>DESCRIPTION</th>
<th>REMARKS</th>
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<tr>
<td>QBSU!!OP</td>
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<tr>
<td>SFWNPEFM!!OP</td>
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### SAFETY APPROVAL:

<table>
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<tr>
<th>SAFETY APPROVAL:</th>
<th>ENGINEER APPROVAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>張偉裕</td>
<td>欧陽建algo</td>
</tr>
</tbody>
</table>

### ELECTRICAL

### STRUCTURAL

| 徐 翔 |
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
1.0 INTRODUCTION

This document specifies a switching power supply with an output of +12V, and electronic process. The switching power supply will provide power for technology equipment 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: 0.3W Max
2.4 Input In-rush Current: 50A Max
2.5 Input Current: 0.2A Max

3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +12V
3.2 Output Regulation: 11.4-12.6V
3.3 Output Load Range: 0-0.5A
3.4 Output Ripple & Noise: 300mV Max @20MHz bandwidth with 10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: \( \geq 73.48\% \) @ average of 25/50/75/100% loads 115V&230VAC input

5.0 LINE REGULATION: \( \pm 2\% \) 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 3000 Vrms, 4mA, 1minute 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 10 ohm resistance current fuse to protect itself.

11.2 Output Protection

11.2.1 Output Current:
Overload conditions shall decrease the output voltage. Removal of an
output 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   AS/NZS CISPR 22:2009 Class B J55022(H22)
EN55022:2010/AC:2011
EN61000-3-2:2006/A2:2009 EN61000-3-3:2008
EN55024:2010/AC:2011
IEC61000-4-5:2005 IEC61000-4-6:2008 IEC61000-4-8:2009
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 standards:

EN60950-1:2006+A11+A1+A12 AS/NZS 60950.1:2011+A1
BS EN60950-1:2006+A1+A12 J60950-1(H22) GB4943.1-2011
IEC 60950-1:2005+A1+A2 K 60950-1(2006-12)
EN60950-1:2006+A11+A1+A12+A2
16. OVERALL DRAWING

UNIT: mm
UNIT: mm

Laser printing on the plastic casing

60YM E202402

UL LISTED

CE

IEC

V

10

2000 W
UNIT: mm

UL/PSE

TUW

SAA

UK
17. USE SPECIFICATION

WARNING!

Please don't insert article alone at the wall.
18. PACKING

18.1 Inner Box

UNIT: mm

<table>
<thead>
<tr>
<th>BOX</th>
<th>Normal BOX</th>
<th>Corrugated BOX</th>
</tr>
</thead>
</table>

Length: 130
Width: 70
Height: 50

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：样品使用的小白盒尺寸可能与此图面尺寸不同，此图面尺寸是用于生产时的包装.
18. PACKING

18.2 Carton

UNIT: mm

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

260
400
(Transverse Plane)

290
(Lateral Plane)
19. MARKING

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

UNIT: mm  

R2.5  

24.5 +0.0 -0.2  

法文標籤貼於CASE上
鋼板紙表面上光  NAME-PLATE: BLACK CHARACTERS WHITE BACKGROUND.

ATTENTION  
POUR UTILISATION À L’INTÉRIEUR SEULEMENT

14 ± 0.1  
13 ± 0.1