

| CUSTOMER    | •   |         |                          |                           |                          |  |
|-------------|---|---------|--------------------------|---------------------------|--------------------------|--|
| DESCRIPTION | <sub>ON:</sub> I.T.E                                    | . POWE  | R SUPP                   | LY REV                    | 7: (A1)                  |  |
| MODEL NO    | MODEL NO: HK-AB-240A125-D56PART NO: HKSC-161220         |         |                          |                           |                          |  |
| DESIGNED    | NO: 1612  | 20-1219 | DATE:                    | JUL.14tl                  | n.2017                   |  |
| CUSTOMER A  | CUSTOMER APPROVED SIGNATURES VENDOR APPROVED SIGNATURES |         |                          |                           |                          |  |
|             |   |         | 經 理<br>2017.07.14<br>田青松 | 工程師<br>2017.07.14<br>歐陽建瓊 | 繪圖員<br>2017.07.14<br>羅珍珍 |  |
|             |   |         |                          |                           |                          |  |

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## SPECIFICATION CHANGE HISTORY

| CUS              | STOMER   |   | PART NO E    | IKSC-161220 |            |
|------------------|----------|---|--------------|-------------|------------|
| MOD              | EL NO    | HK-AB-240A125-D56                       | REV          | (A1)        |            |
| REV              | DATE     | DESCRIPTION                             |              |             | EMARKS     |
|                  |          | 新發行承認書.(New issue)                      |              | _           | 羅珍珍        |
| A1               |          | 更新EMC標準.(Update EMC stan                | dards)       |             | 羅珍珍        |
| 711              | 17.07.11 | Z W T T T T T T T T T T T T T T T T T T |              |             | WE - / - / |
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|                  |          |   | ENGINEER     | APPROVAL:   |            |
| SAFETY APPROVAL: |          | ETY APPROVAL:                           |              |             |            |
|                  |          |   | ELECTRICAL   | STRUCTU     | JRAL       |
|                  |          |   |              |             |            |
|                  |          | 75 /4 1                                 | -L 78 - 4- 4 | _1          | A &-       |
|                  |          | 張偉松                                     | 歐陽建瓊         | 陳           | 銘          |
|                  |          |   |              |             |            |



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### 1.0 INTRODUCTION

This document specifies a switching power supply with a output of +24V, 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

Test condition will be tested after No load operating for 30min then measure it.

2.4 Input In-rush Current: 50A Max

2.5 Input Current: 0.8A Max

## 3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +24V

3.2 Output Regulation: 22.8-25.2V

3.3 Output Load Range: 1.25A

3.4 Output Ripple & Noise: 240mV Max @20MHz bandwidth with

10UF/50V capacitance and 104/50V ceramic capacitor.

 $4.0 \ \underline{EFFICIENCY}$ :  $\geq 86.95\%$  @ average of 25/50/75/100% loads 115V&230VAC input

Test condition will be tested after full load operating for 30min then measure it.

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.



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8.0 TEMPERATURE COEFFICIENT: 0.05%/°C

## 9.0 DIELECTRIC STRENGTH (Hi-Pot) TEST

Primary to Secondary : AC 3.0 KVrms, 4mA, 1 minute for type, 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 output overload shall provide automatic recovery for the output voltage.

11.2.2 Short Circuit Protection: Auto Recovery.



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#### 12.0 ENVIRONMENTAL CONDITIONS

The switching power supply can withstand the following environmental conditions:

12.1 Storage Temperature:  $-20^{\circ}$ C  $\sim +70^{\circ}$ C

Relative Humidity:  $10\% \sim 95\%$ 

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

EN55032;2015 IEC61000-4-3;2006/A1;2007/A2;2010

EN61000-3-2:2014 IEC61000-4-4:2012

EN61000-3-3:2013 IEC61000-4-5:2014

EN55024:2010+A1:2015

IEC61000-4-2:2008 IEC61000-4-6:2013

IEC61000-4-8:2009

IEC61000-4-11:2004

CISPR 32:2015(Ed2.0) AS/NZS CISPR 32:2015;

CISPR 24:2010+A1:2015(Ed2.1)

### 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 compling 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 CSA C22.2 NO.60950-1-07, 2nd Edition, 2014-10

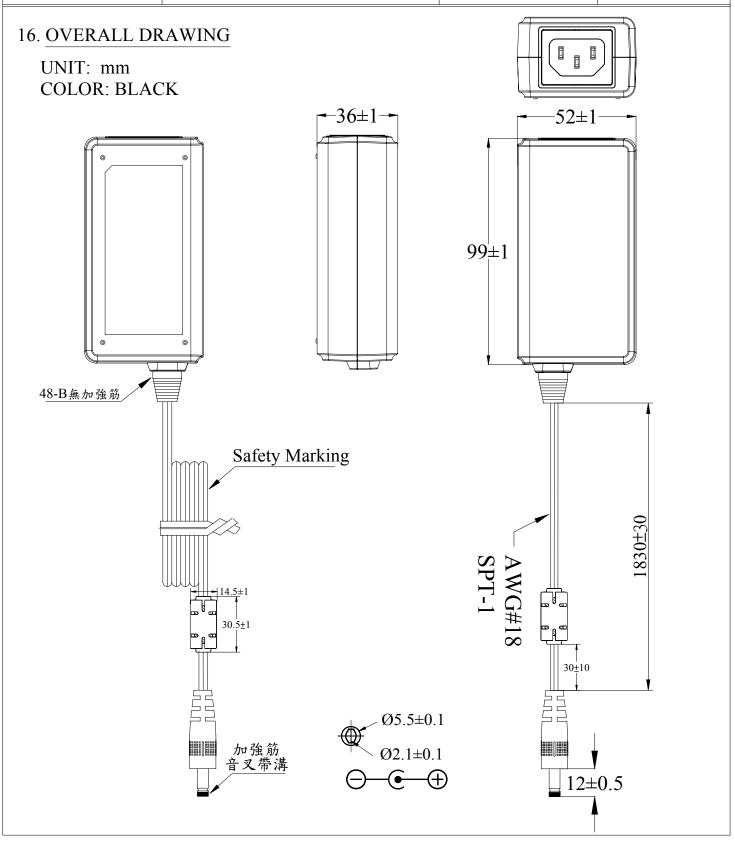
EN60950-1:2006+A11+A1+A12+A2

BS EN60950-1:2006+A2

AS/NZS 60950.1:2015



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### 17. PACKING

### 17.1 Inner Box

UNIT: mm

BOX( Normal BOX Corrugated BOX)

Length:125

Width: 60

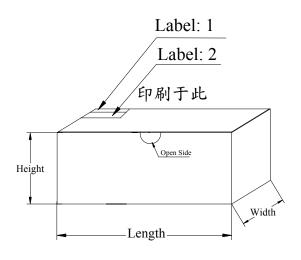
Height: 72

Label: 1

P/N:25HK-AB-240A125-D56 6

Label: 2





#### 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.

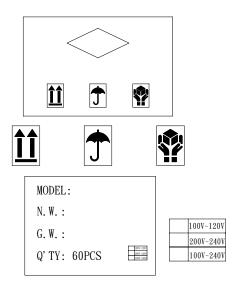


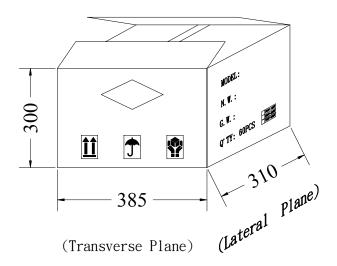
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### 17. PACKING

17.2 Carton

UNIT: mm







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### 18. MARKING

100# CPC 壓花底+上光 NAME-PLATE:WHITE CHARACTERS BLACK BACKGROUND.

