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PART NO. :	HKSC-121203	ISSUED DATE:	2012.08.03
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

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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 In-rush Current: 60A Max

2.4 Input Power Consumption at no-load : 0.3W Max

2.5 Input Current: 1.5A Max

3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +12V

3.2 Output Regulation: 11.4-12.6V

3.3 Output Load Range: 0-3.3A

3.4 Output Ripple & Noise: 120mV Max @20MHz bandwidth with
10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: $\geq 85.37\%$ @ 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.

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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 2.5 Amps inner current fuse to protect itself.

11.2 Output Protection

11.2.1 Output Current:

Overload conditions shall decrease the output current. 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°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 15B AS/NZS 55022/55024 J55022(H20),J3000(H21)

(1)EN55022 (EN61000-3-2 EN61000-3-3)

(2)EN55024 (IEC61000-4-2 IEC61000-4-3 IEC61000-4-4

IEC61000-4-6 IEC61000-4-8 IEC61000-4-11)

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:

技術基準 省令第 2 項 : J60950(H19), J55022(H20), J3000(H21)

Technical Requirements Clause 2: J60950 (H19): 2007, J55022 (H20): 2008, J3000 (H21): 2009

UL60950-1 2nd Edition ,2007-03-27 CSA C22.2 NO.60950-1-07,

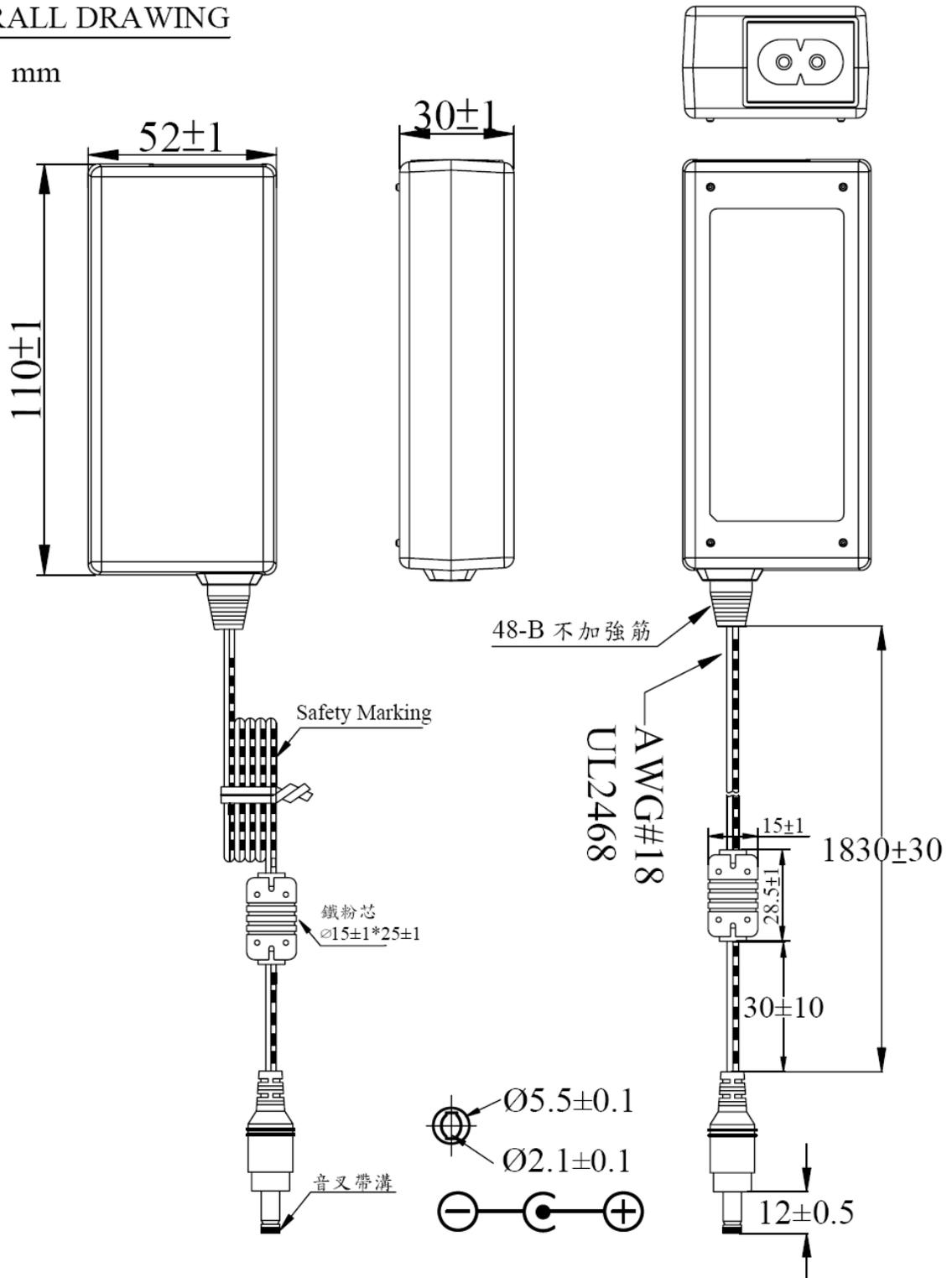
2nd Edition.2007-03 EN60950-1: 2001+A11 BS EN60950-1:2002

AS/NZS 60950.1:2003 inc amendment1.2&3

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16. OVERALL DRAWING

UNIT: mm



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17. PACKING

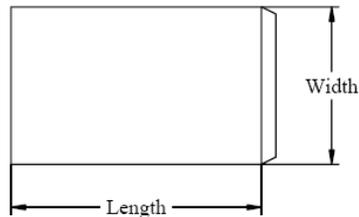
17.1 Inner Box

UNIT: mm

PE BAG

Length :

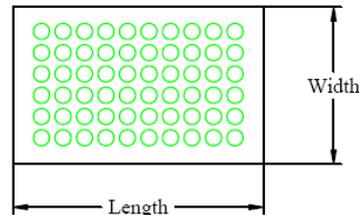
Width :



BUBBLE BAG

Length:

Width:

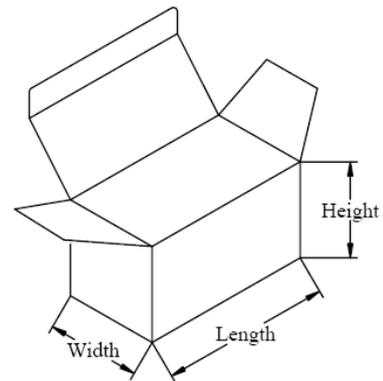


BOX(Normal BOX Corrugated BOX)

Length: 128

Width: 60

Height:55



NOTICE:

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

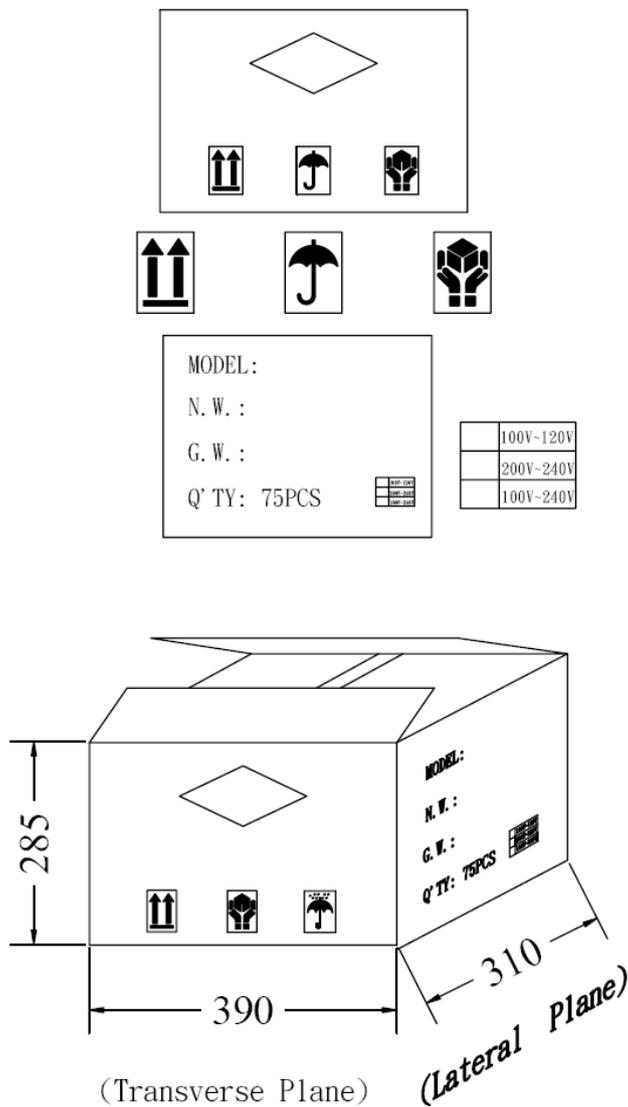
注意:樣品使用的小白盒尺寸可能與此圖面尺寸不同,此圖面尺寸是用于生產時的包裝.

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17. PACKING

17.2 Carton

UNIT: mm

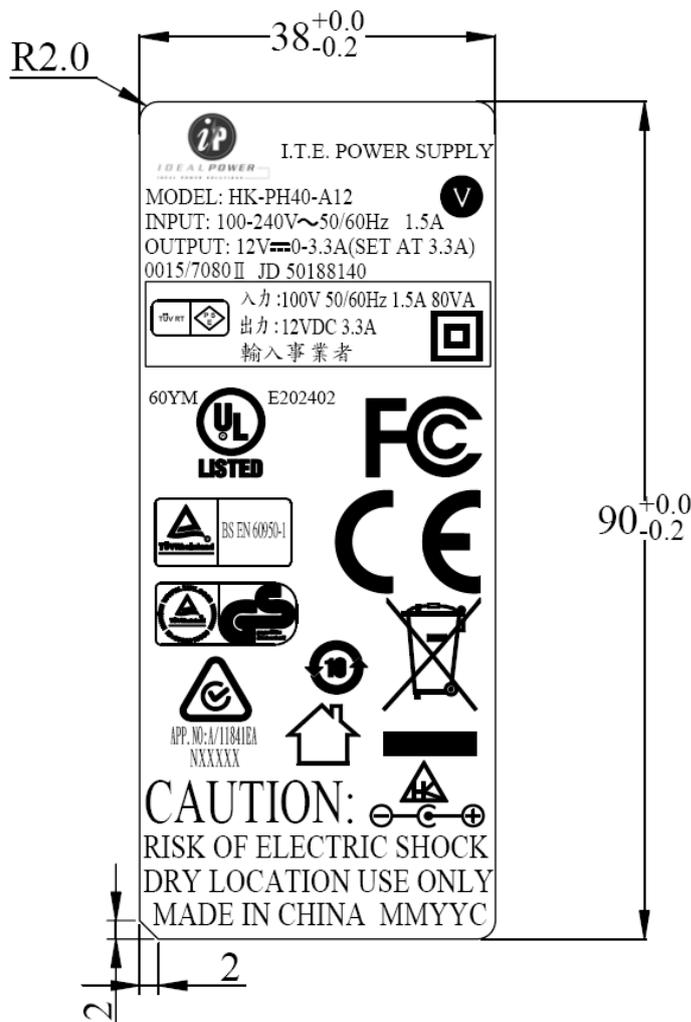


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18. MARKING

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

UNIT: mm M M Y Y C
 | | | | |
 month year
 made in China
 by Hon-kwang



Remark: The supplier code for RCM will be provided by customer.