

SPECIFICATION FOR APPROVAL

CUSTOMER: **Ideal Power**

DESCRIPTION: I.T.E. POWER SUPPLY REV: (A2)

MODEL NO: HK-AB-240A125-D5 PART NO: HKSC-121045
ROHS Compliance

DESIGNED NO: 121045-0704 DATE: JUL.18th.2012

CUSTOMER APPROVED SIGNATURES			VENDOR APPROVED SIGNATURES		
					



QR-1-26A

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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 : 0.3W Max

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 EFFICIENCY: $\geq 83.62\%$ @ 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.

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8.0 TEMPERATURE COEFFICIENT: 0.05%/°C

9.0 DIELECTRIC STRENGTH (Hi-Pot) TEST

9.1 Finished product withstands AC 3.0KV, for 2 second, 4mA Max primary to secondary.

9.2 Finished product withstands AC 3.0KV, for 2 second, 4mA Max primary to case.

9.3 Finished product withstands AC 1.25KV, for 2 second, 4mA Max primary to gnd

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°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)

(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:

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

2nd Edition.2007-03 EN60950-1: 2006+A11 BS EN60950-1:2006

電気用品の技術上の基準を定める省令第2項

Article 2 of The Technical Requirements of the METI Ordinance

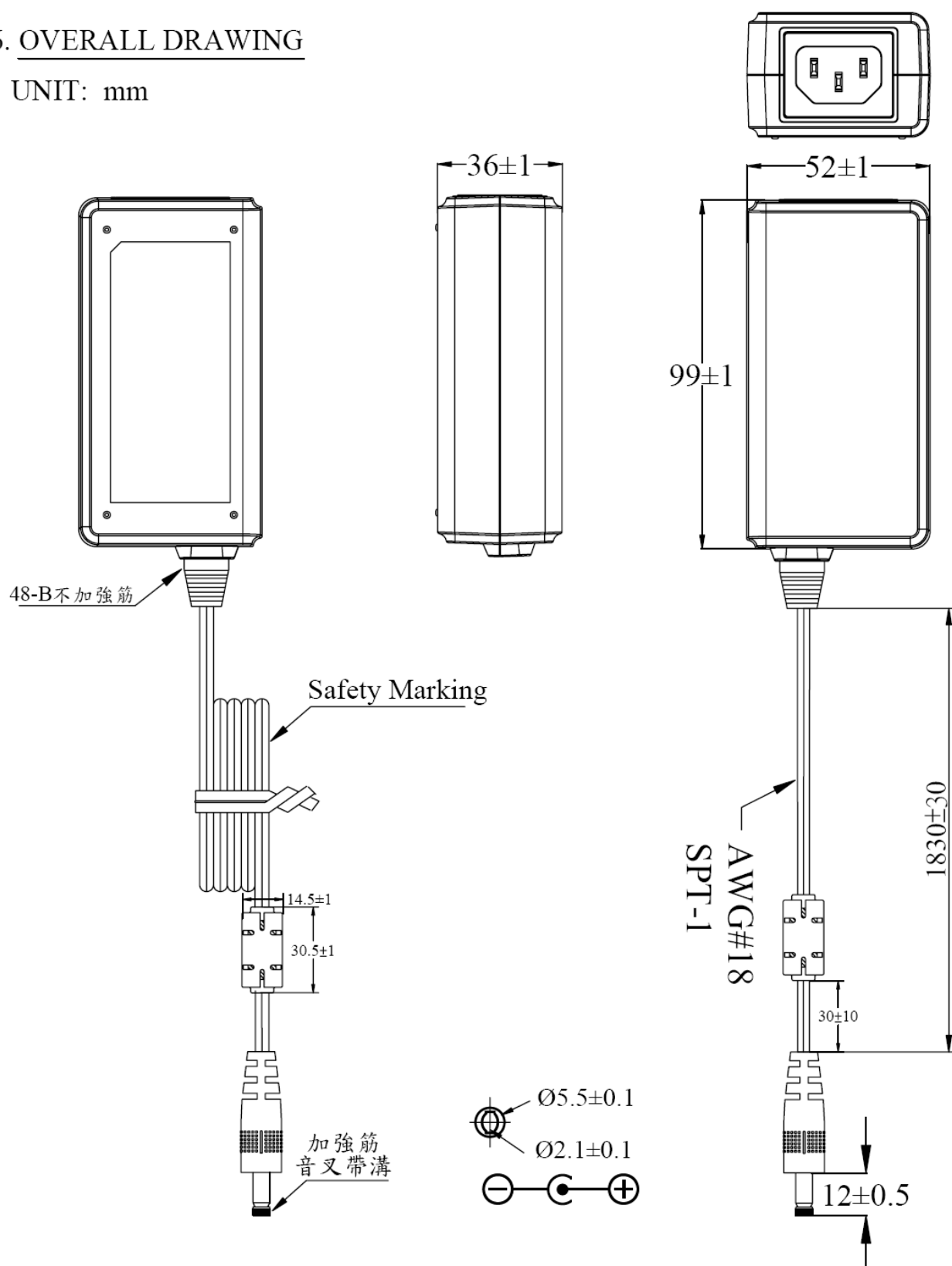
J60950 (H19) 及び J55022 (H20)

AS/NZS 60950.1:2011

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16. OVERALL DRAWING

UNIT: mm



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17. PACKING

17.1 Inner Box

UNIT: mm

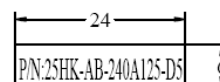
☒ BOX(☒ Normal BOX ☐ Corrugated BOX)

Length:125

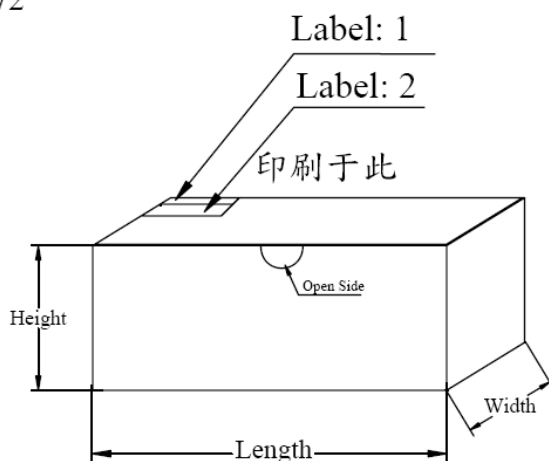
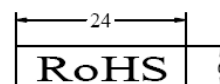
Width: 60

Height: 72

Label: 1



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.

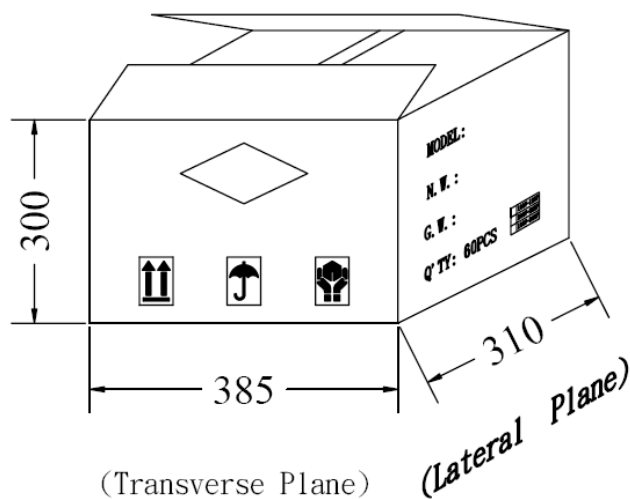
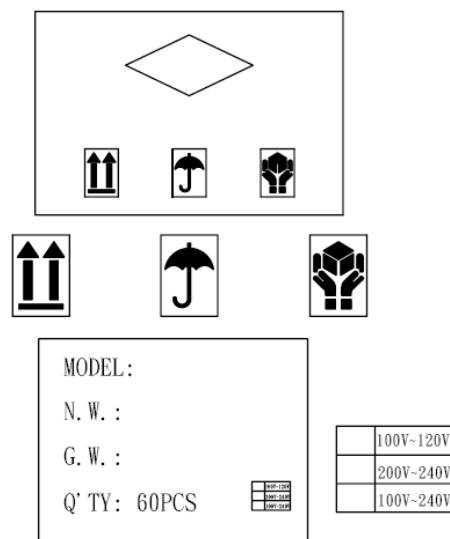
注意:樣品使用的小白盒尺寸可能與此圖面尺寸不同,此圖面尺寸是用于生產時的包裝。

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17. PACKING

17.2 Carton

UNIT: mm



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18. MARKING

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

