IDEAL POWER
experts in power conversion

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

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

MODEL NO: HK-AY-240A100-DH PART NO: HKSC-170425

DESIGNED NO: 170425-0621 DATE: JUN.21th.2017

CUSTOMER APPROVED SIGNATURES			VENDOR APPROVED SIGNATURES		
			經 理 2017.06.21 田青松	課 長 2017.06.21 歐陽建瓊	繪圖員 2017.06.21 羅珍珍

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SPECIFICATION CHANGE HISTORY

CUSTOMER		PART NO	HKSC-170425
MODEL NO	HK-AY-240A100-DH	REV	(A0)

REV	DATE	DESCRIPTION	REMARKS
A0	17.06.21	新發行承認書. (New issue)	羅珍珍

SAFETY APPROVAL:	ENGINEER APPROVAL:	
	ELECTRICAL	STRUCTURAL
張偉松	歐陽建瓊 / 王令彬	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 In-rush Current: 50A Max

2.4 Input Power Consumption at no-load : 0.1W Max

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

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: 0-1.0A

3.4 Output Ripple & Noise: 200mV Max @20MHz bandwidth with 10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: ≧ 86.2% @average of 25/50/75/100% loads 115&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 UP 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 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℃ ~ +70 ℃

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
EN 55032:2015
CISPR 32:2015 (Ed 2.0)
AS/NZS CISPR 32:2015
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 55024: 2010+A1:2015
CISPR 24:2010+A1:2015 (Ed 2.1)
(IEC 61000-4-2:2008;IEC 61000-4-3:2006+A1:2007+A2:2010;
IEC 61000-4-4:2012; IEC 61000-4-5:2014;IEC61000-4-6:2013;IEC 61000-4-8:2009; IEC 61000-4-11:2004)

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 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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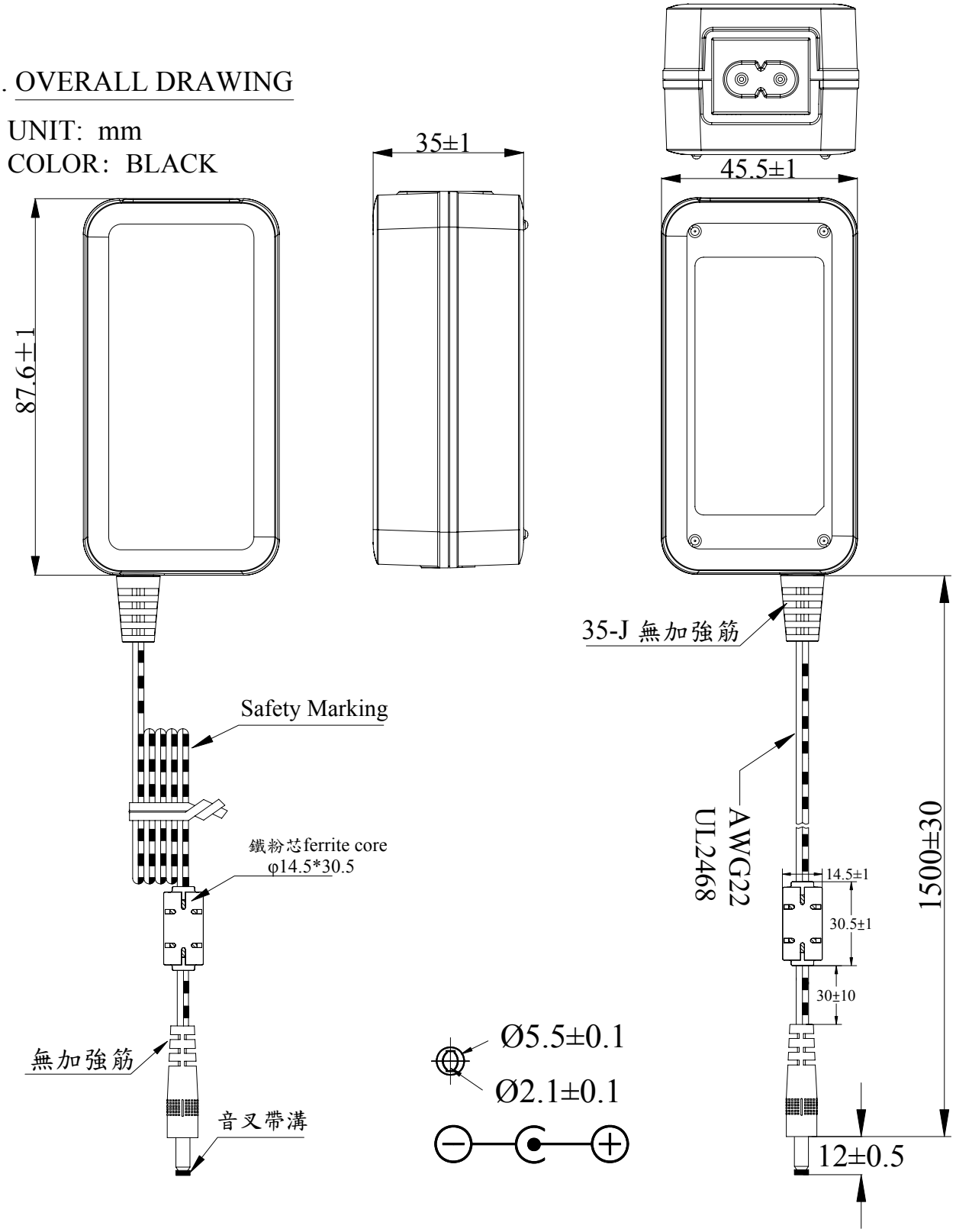
16. OVERALL DRAWING

UNIT: mm
COLOR: BLACK



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17. PACKING

17.1 Inner Box

UNIT: mm

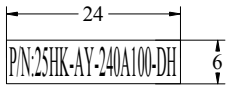
■ BOX(■ Normal BOX □ Corrugated BOX)

Length: 110

Width: 70

Height: 50

Label: 1



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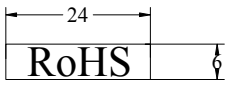
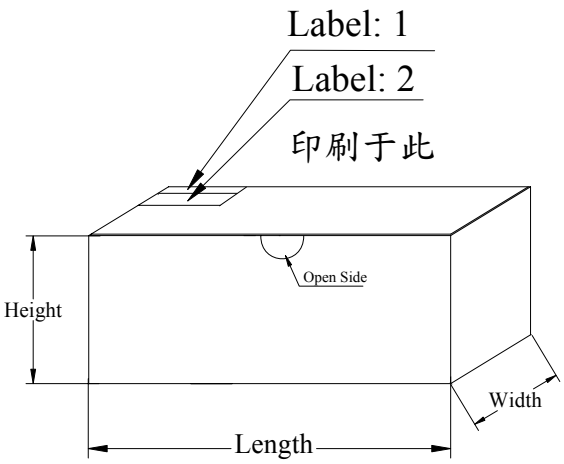




NOTICE:

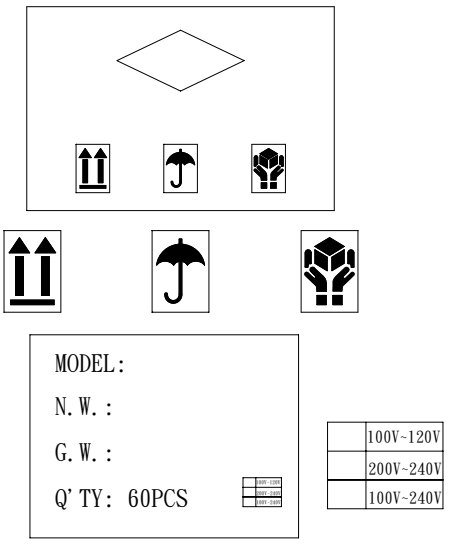
Its probably different from the white box of the sample and the figure dimension. The white box is used to pack during product.

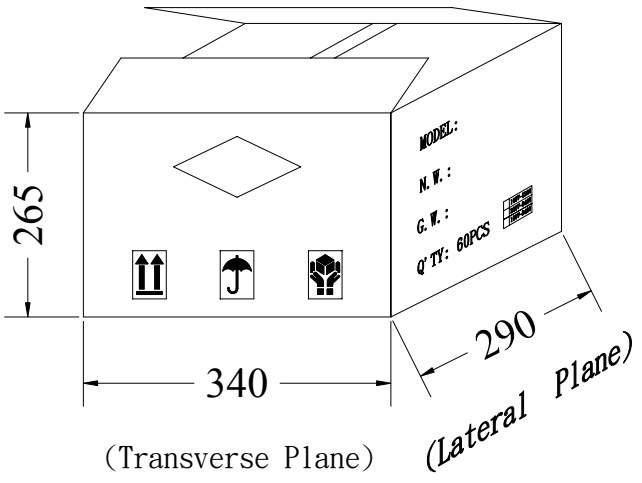
注意:樣品使用的小白盒尺寸可能與此圖面尺寸不同,此圖面尺寸是用于生產時的包裝.

17. PACKING

17.2 Carton

UNIT: mm





18. MARKING

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

UNIT: mm MMYYC

month
year
made in China
by Hon-kwang