



SPECIFICATION FOR APPROVAL

CUSTOMER: _____

DESCRIPTION: SWITCHING POWER SUPPLY REV: (A3)

MODEL NO: HK-AY-050A300-DH PART NO: HKSC-170027

DESIGNED NO: 170027-0109 DATE: MAR.07th.2020

CUSTOMER APPROVED SIGNATURES			VENDOR APPROVED SIGNATURES		
					

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MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	1 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

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. PACKING
18. MARKING

MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	2 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

1.0 INTRODUCTION

This document specifies a switching power supply with a output of +5V, 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 : 0.1W 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: +5V

3.2 Output Regulation: 4.75-5.25V

3.3 Output Load Range: 0-3.0A

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

4.0 EFFICIENCY: $\geq 81.38\%$ @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: $\pm 2\%$ maximum

6.0 HOLD UP TIME: 10ms Min at 110VAC full load.

7.0 TURN UP TIME: 2S Max at 110VAC full load.

MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	3 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

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.



MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	4 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

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 32: 2015

EN 55032: 2015, Class B CISPR 32: 2012 (Ed 2.0)

EN 61000-3-2: 2014 EN 61000-3-3: 2013

IEC 61000-4-2: 2008 IEC 61000-4-3: 2006 +A1: 2007 +A2: 2010

IEC 61000-4-4: 2012 IEC 61000-4-5: 2014 IEC 61000-4-6: 2013

IEC 61000-4-8: 2009 IEC 61000-4-11: 2004 +A1: 2017

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:

UL 62368-1, Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements

CSA C22.2 NO. 62368-1-14, Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements

EN 62368-1:2014+A11 BS EN 62368-1:2014+A11 AS/NZS 62368.1:2018

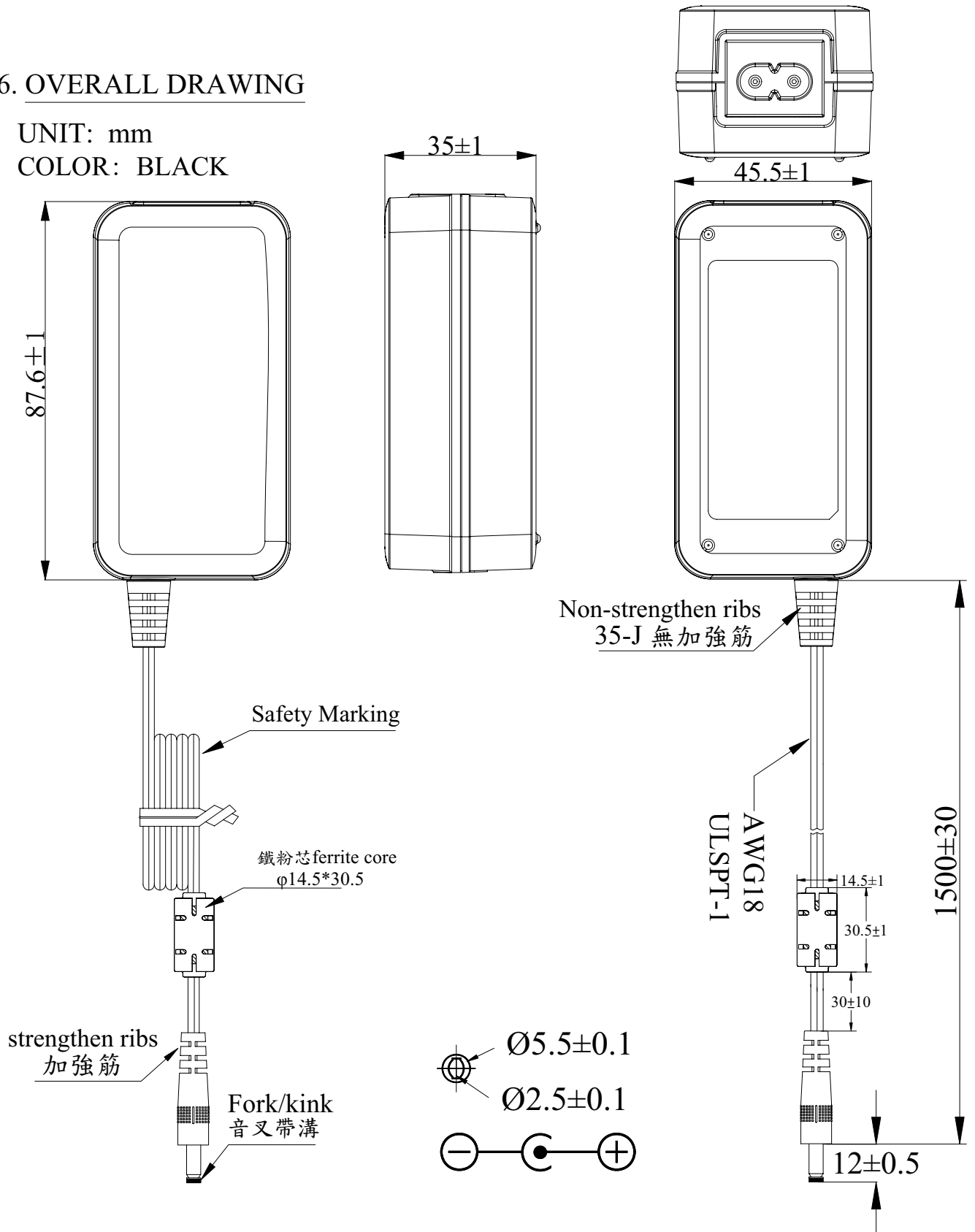


MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	5 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

16. OVERALL DRAWING

UNIT: mm

COLOR: BLACK





MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	6 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

17. PACKING

17.1 Inner Box

UNIT: mm

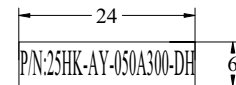
BOX(Normal BOX Corrugated BOX)

Length: 110

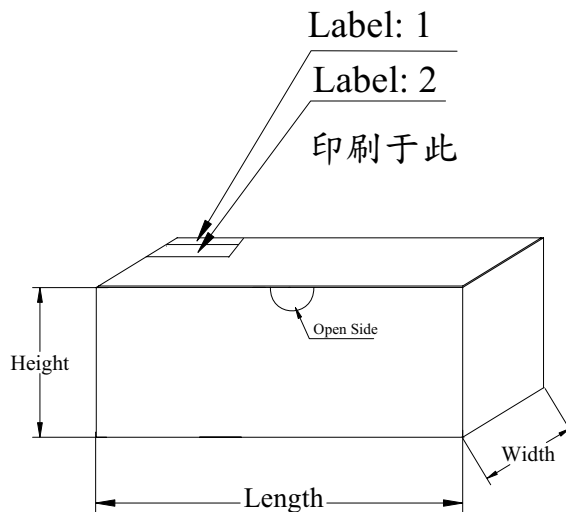
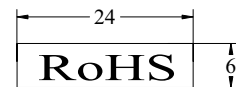
Width: 70

Height: 50

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。

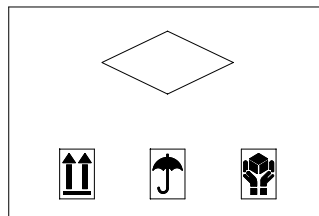


MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	7 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

17. PACKING

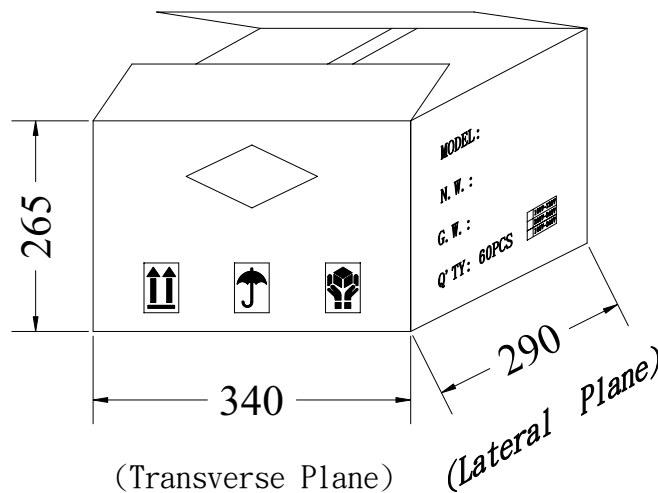
17.2 Carton

UNIT: mm



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

	100V-120V
	200V-240V
	100V-240V





IDEALPOWER

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MODEL NO. :	HK-AY-050A300-DH	PAGE NO. :	8 OF 9
PART NO. :	HKSC-170027	ISSUED DATE:	2020.03.07
DESCRIPTION :	SWITCHING POWER SUPPLY	REV:	(A3)

18. MARKING

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

UNIT: mm MMYYS
 month year
 made in China
 by Hon-kwang

