SPECIFICATION FOR APPROVAL

CUSTOMER: _____

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

MODEL NO: HK-AY-150A160-CP PART NO: HKSC-170037

DESIGNED NO: 170037-0113 DATE: JAN.13th.2017

CUSTOMER APPROVED SIGNATURES			VENDOR APPROVED SIGNATURES		
			經 理 2017.01.13 田青松	課 長 2017.01.13 歐陽建瓊	繪圖員 2017.01.13 羅珍珍

Ideal Power, 14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England EX32 7NZ
Web: www.idealpower.co.uk email: sales@idealpower.co.uk TEL +44 (0) 845 2603400 Fax +44 (0) 845 2603401

IDEAL POWER
experts in power conversion

SPECIFICATION CHANGE HISTORY

CUSTOMER		PART NO	HKSC-170037
MODEL NO	HK-AY-150A160-CP	REV	(A0)

REV	DATE	DESCRIPTION	REMARKS
A0	17.01.13	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	沈保良

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1.0 INTRODUCTION

This document specifies a switching power supply with a output of +15V, 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: 60A Max

2.5 Input Current: 0.8A Max

3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +15V

3.2 Output Regulation: 14.25-15.75V

3.3 Output Load Range: 0-1.6A

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 ON 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 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 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.

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 designed to meet the following safety standards:

FCC PART 15 Class B

CISPR 22:2008(Ed 6.0)AS/NZS CISPR 22:2009+A1:2010; CISPR 24:2010(Ed 2.0)AS/NZS CISPR 24:2013

EN55022:2010/AC:2011	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	IEC61000-4-5:2014
IEC61000-4-2:2008	IEC61000-4-6:2013
	IEC61000-4-8:2009
	IEC61000-4-11:2004

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 designed to meet the following safety standards:

UL 60950-1, 2nd Edition,2014-10-14 CSA C22.2 NO.60950-1-07, 2nd Edition,2014-10

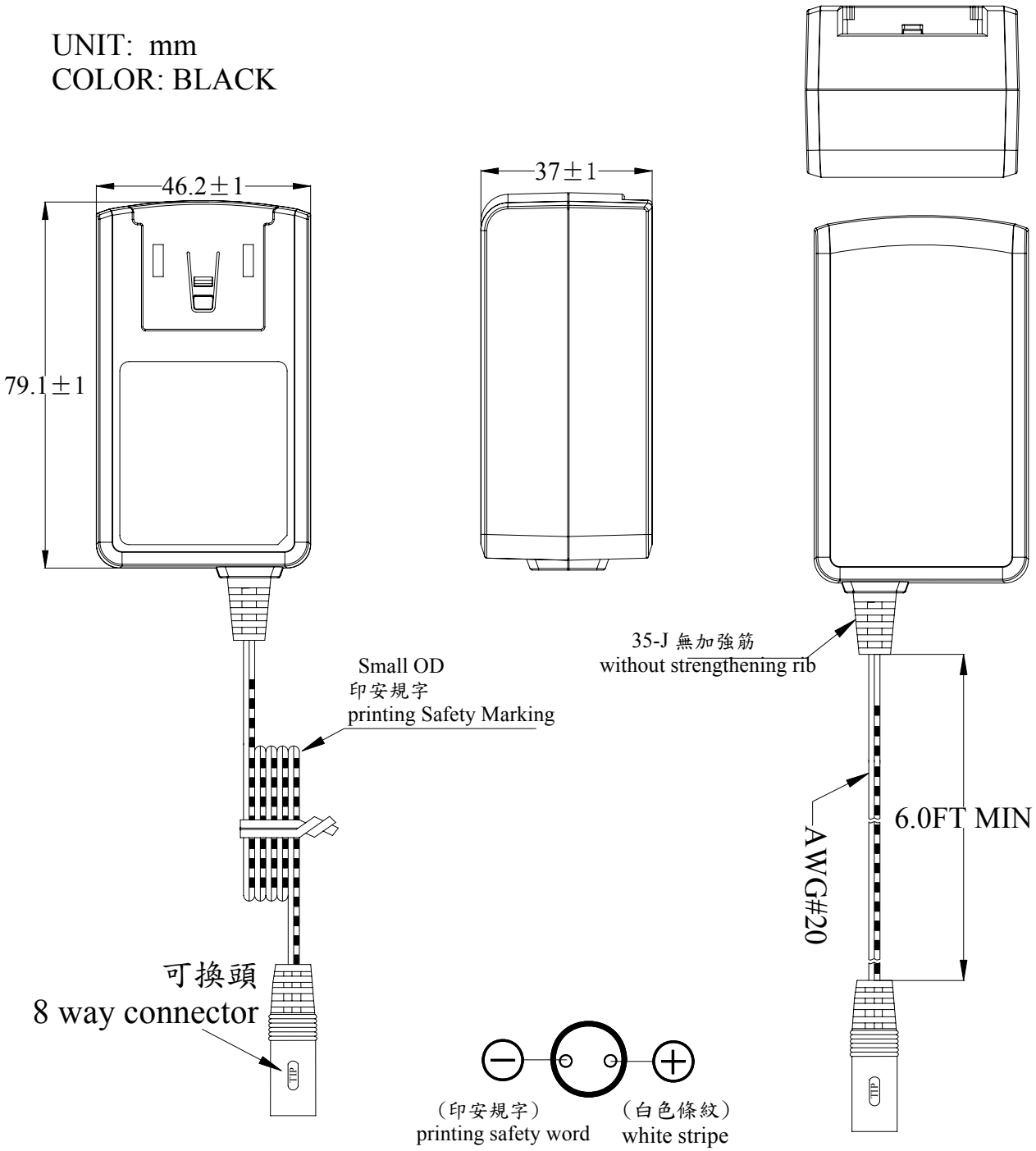
EN60950-1:2006+A11+A1+A12+A2 BS EN60950-1:2006+A2

AS/NZS 60950.1:2015

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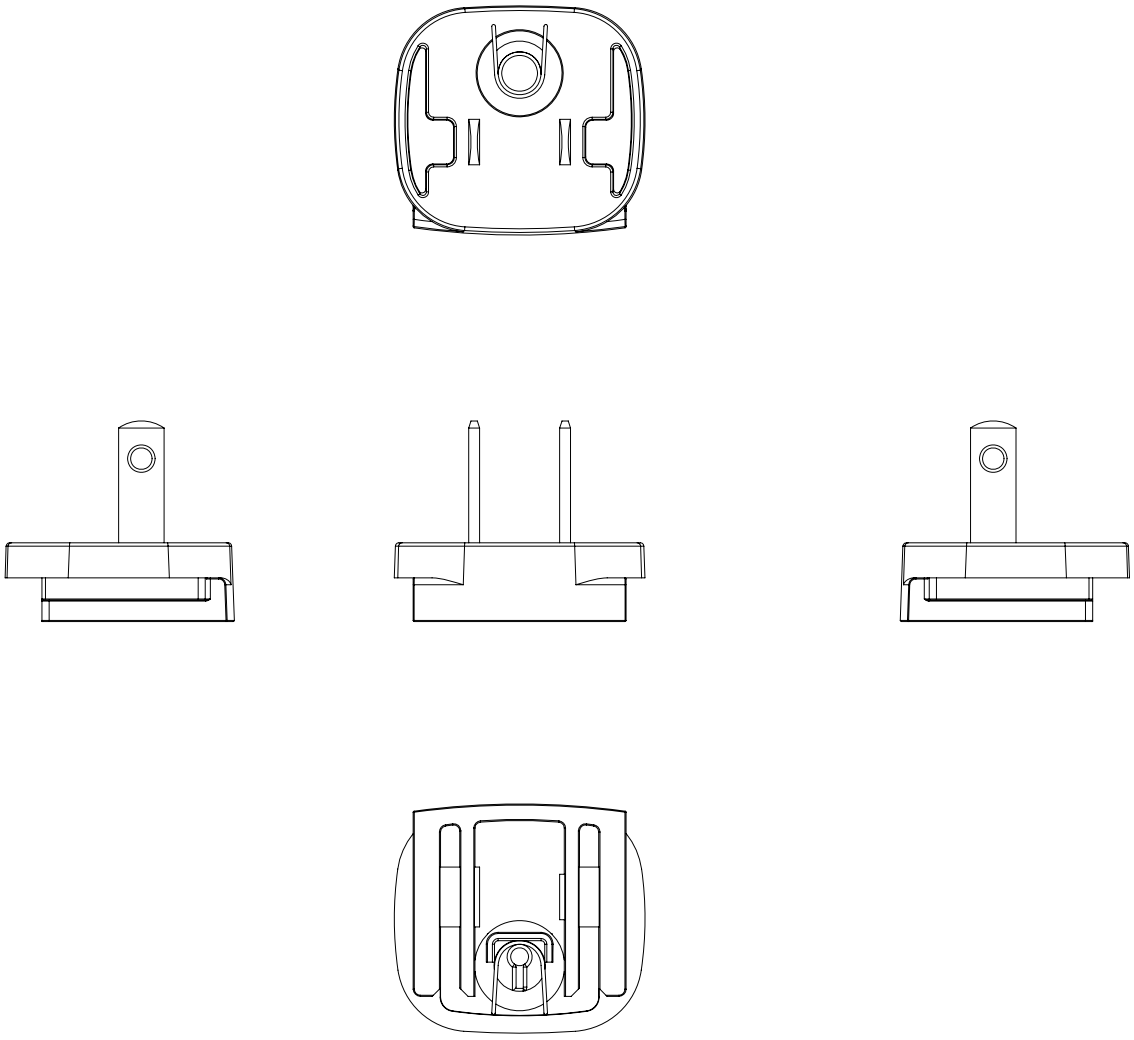
16. OVERALL DRAWING

UNIT: mm
COLOR: BLACK



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UNIT: mm



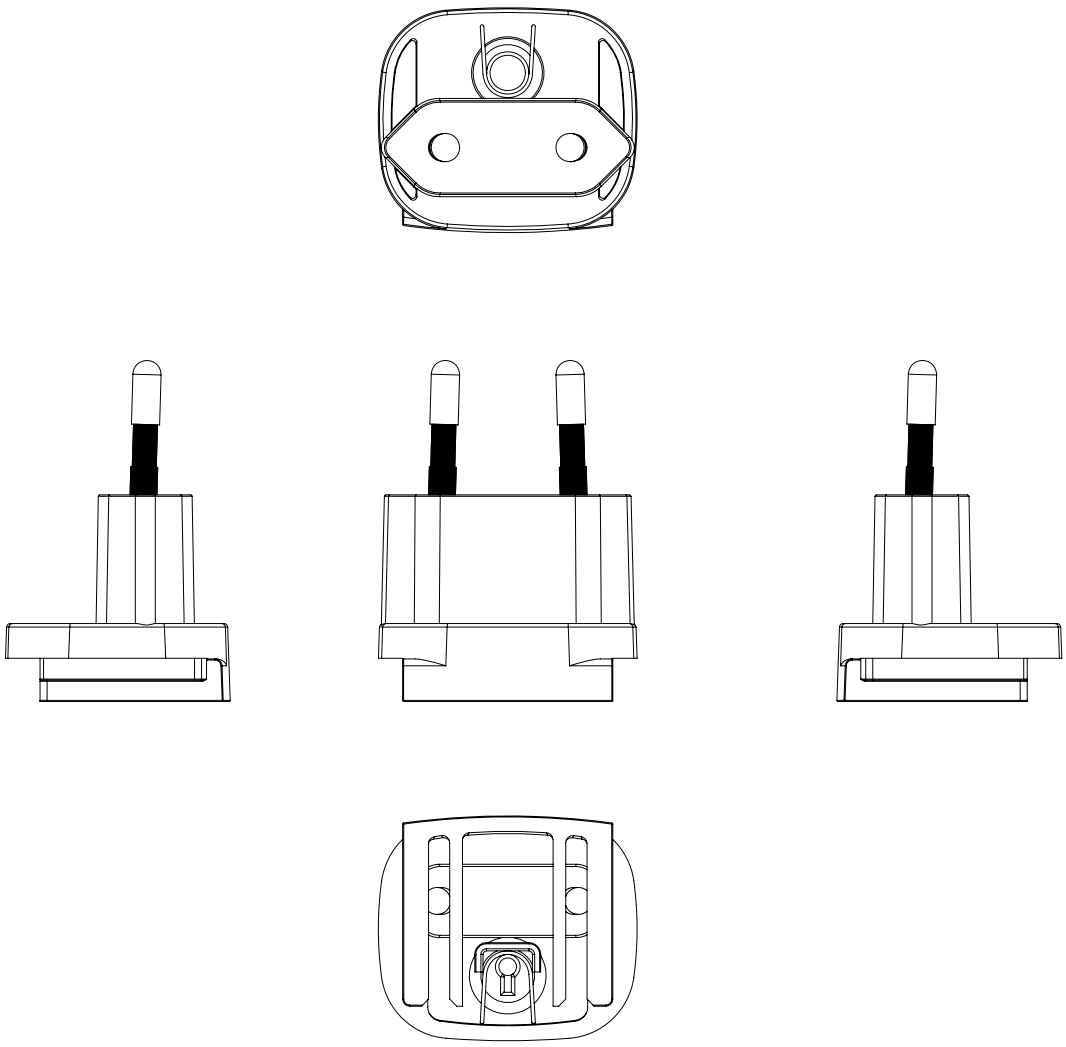
UL

Ideal Power, 14 Larks Way, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, England EX32 7NZ

Web: www.idealpower.co.uk email: sales@idealpower.co.uk TEL +44 (0) 845 2603400 Fax +44 (0) 845 2603401

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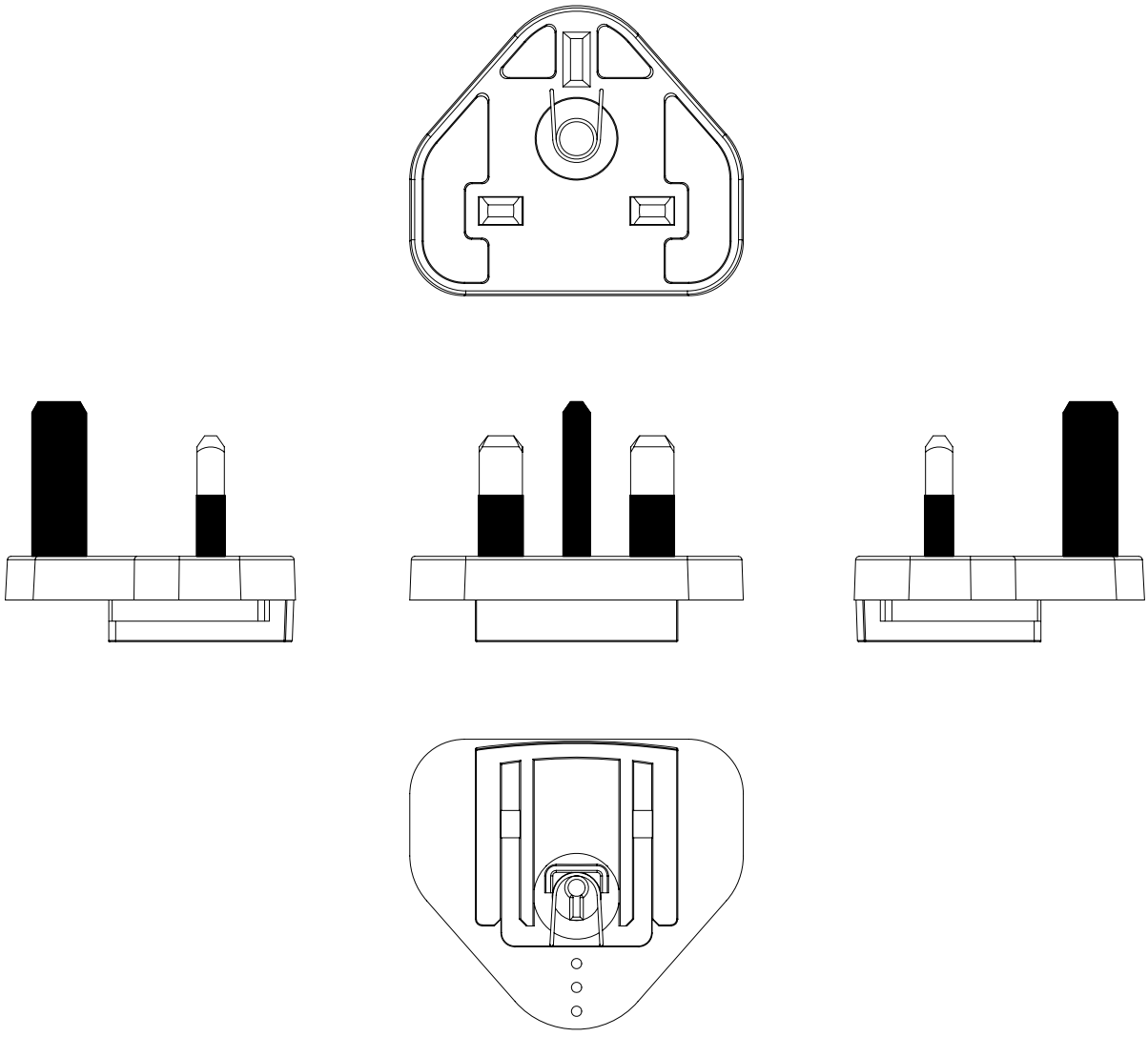
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TUV

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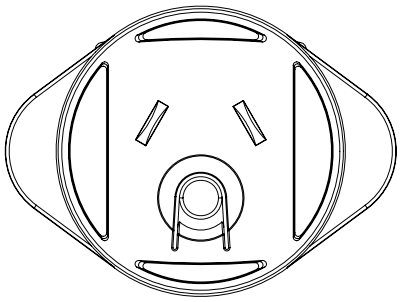
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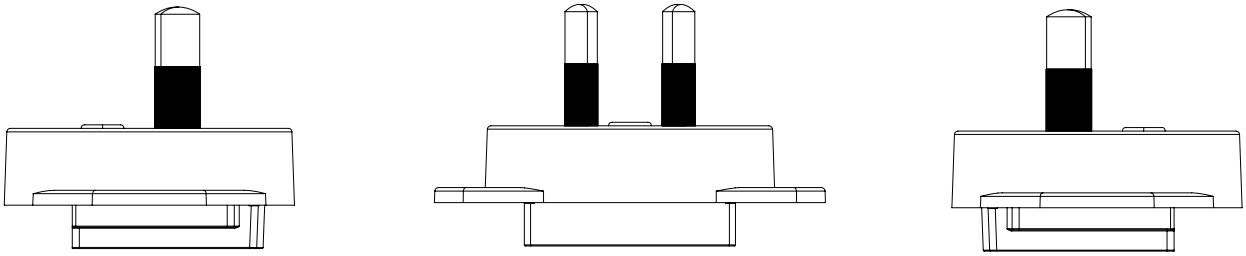


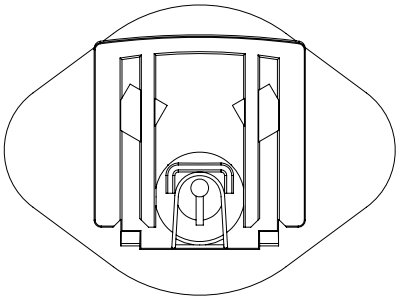
UK

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UNIT: mm



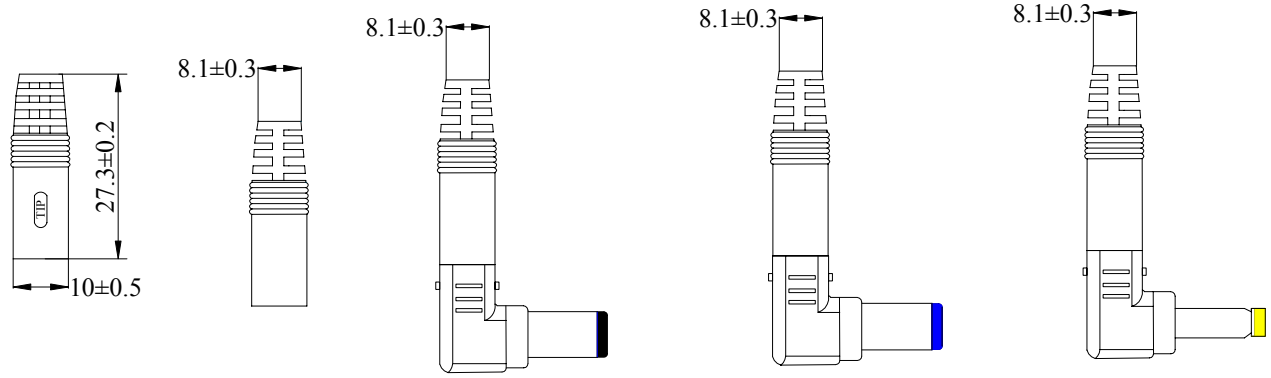


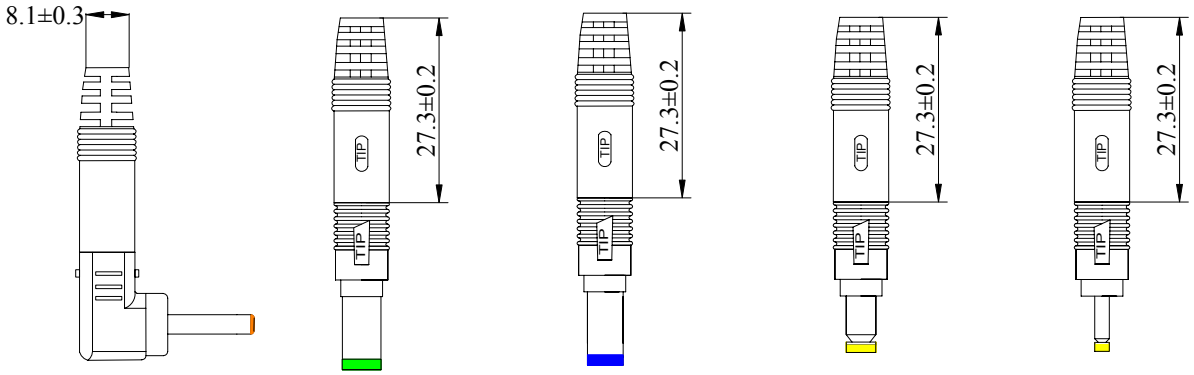


SAA

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

UNIT: mm





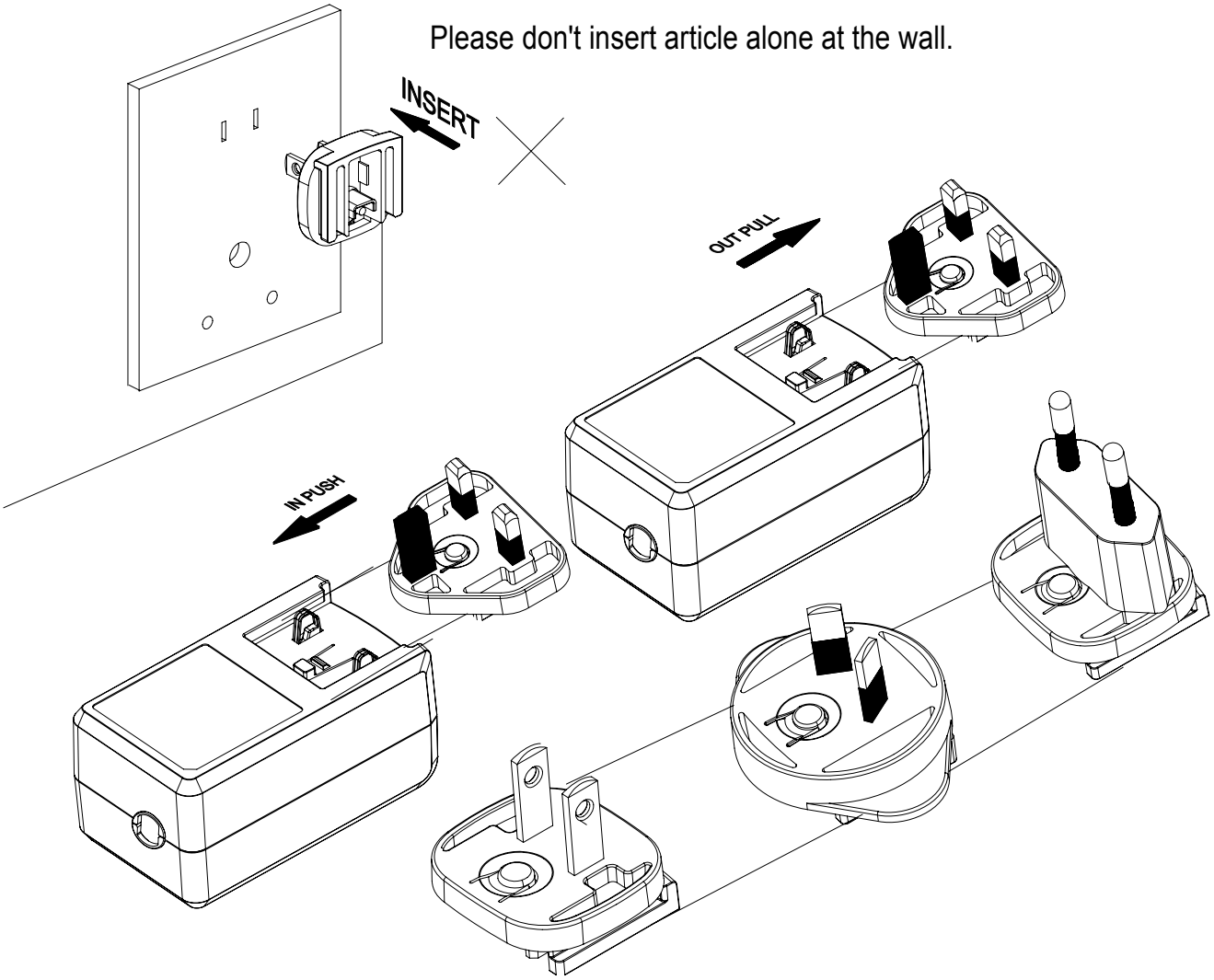
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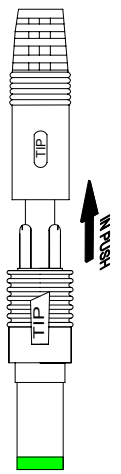
MODEL NO. :	HK-AY-150A160-CP	PAGE NO. :	11 OF 15
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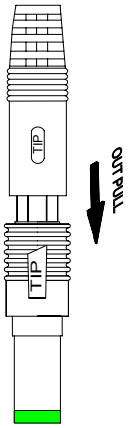
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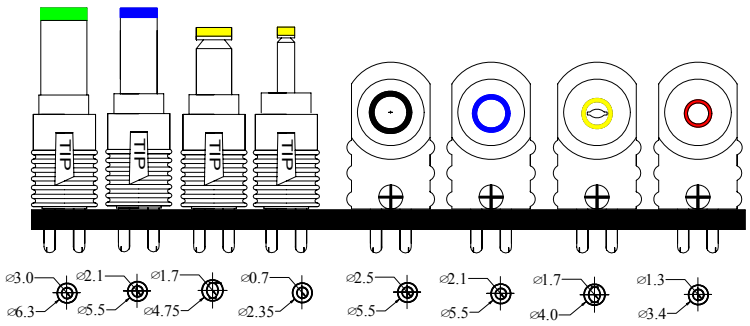
WARNING!

Please don't insert article alone at the wall.

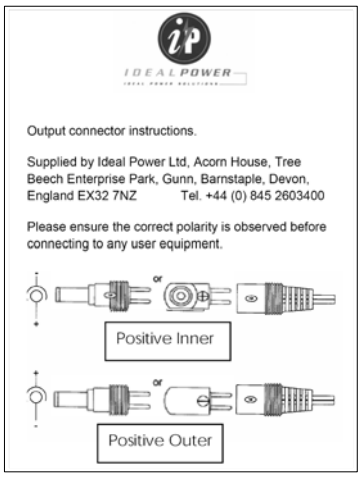








Instruction manual card



17. PACKING

17.1 Inner Box

UNIT: mm

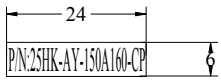
■ BOX(■ Normal BOX □ Corrugated BOX)

Length:143

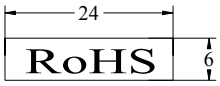
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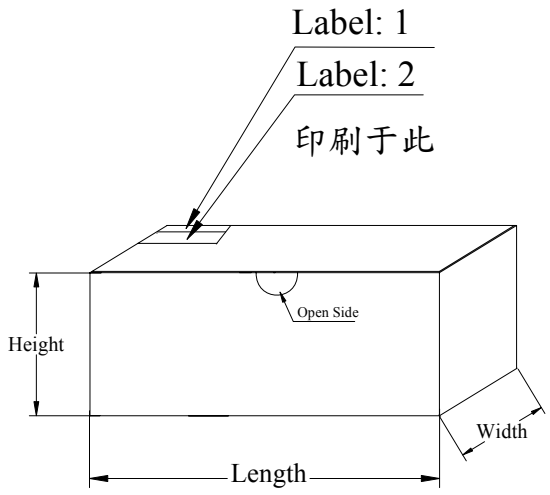
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Label: 1



Label: 2





NOTICE:

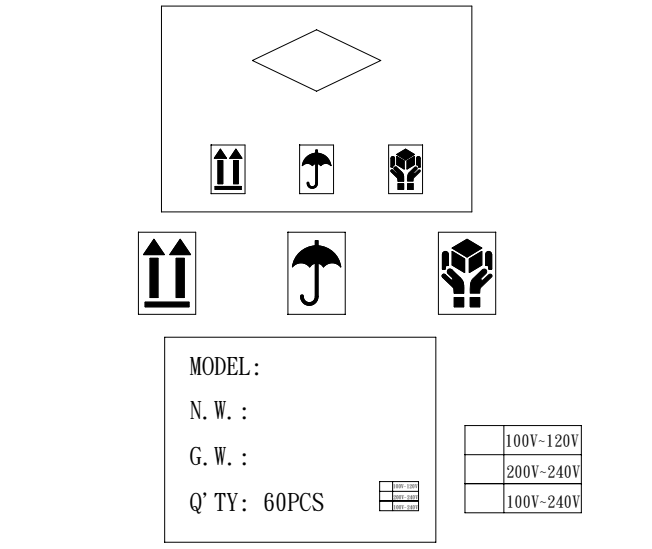
Its probably different from the white box of the sample and the figure dimension. The white box is used to pack during product.

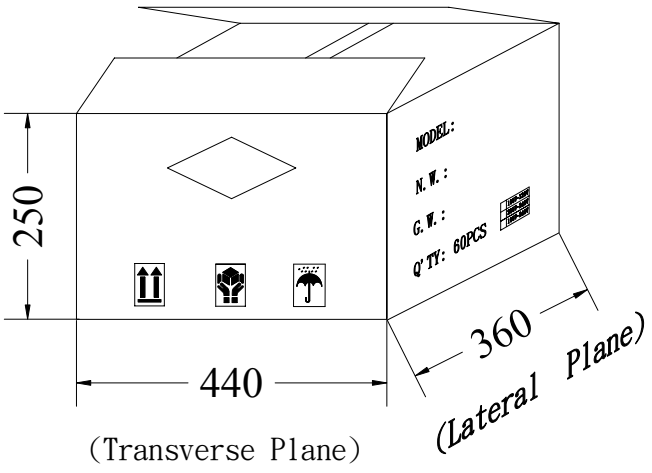
注意:樣品使用的小白盒尺寸可能與此圖面尺寸不同,此圖面尺寸是用于生產時的包裝.

17. PACKING

17.2 Carton

UNIT: mm





18. MARKING

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

UNIT: mm

M M Y Y C

month

year

made in China

by Hon-kwang

