



# IDEALPOWER

experts in power conversion

Ideal Power Ltd Product Specification Document

<b>Description</b>	Ext. PSU
<b>Model Number</b>	25HK-CP12-A15
<b>Revision</b>	A3
<b>Notes</b>	-

CUSTOMER APPROVED SIGNATURES			VENDOR APPROVED SIGNATURES		
					

**Ideal Power Ltd**

Ideal Power, Ideal House, Tree Beech Enterprise Park, Gunn, Barnstaple, Devon, EX32 7NZ, England, UK

**Tel:** +44 (0) 845 260 3400

**Email:** sales@idealpower.co.uk

**Web:** www.idealpower.co.uk



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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 : 0.3W Max

2.4 Input In-rush Current: 50A Max

2.5 Input Current: 0.8A Max

## 3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +15V

3.2 Output Regulation: 14.25V~15.75V

3.3 Output Load Range: 0~0.8A

3.4 Output Ripple & Noise: 150mV Max @20MHz bandwidth with  
22UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY:  $\geq 77.85\%$  @average of 25/50/75/100% loads 115&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.

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.

10.0 INSULATION RESISTANCE

Primary to secondary: 50MOHM to 500VDC.

11.0 PROTECTION

11.1 Input Protection

The switching power supply has a 1 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.

11.2.3 Over Voltage Protection: 20V ±1V

## 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(H22)

(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 +A1+A12  
AS/NZS 60950-1:2003 +A1+A2+A3.

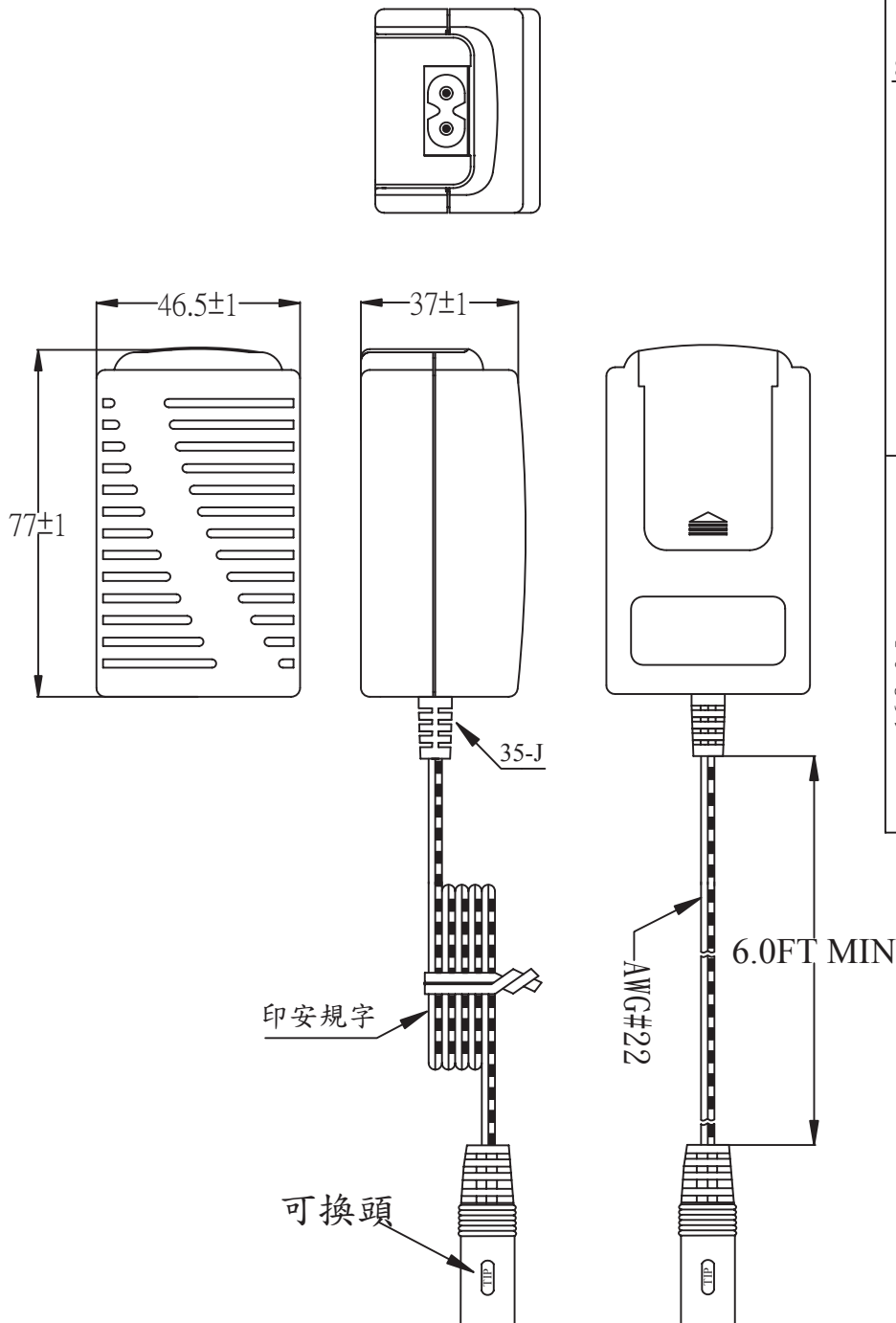
**電気用品の技術上の基準を定める省令第2項**

Article 2 of The Technical Requirements of the METI Ordinance

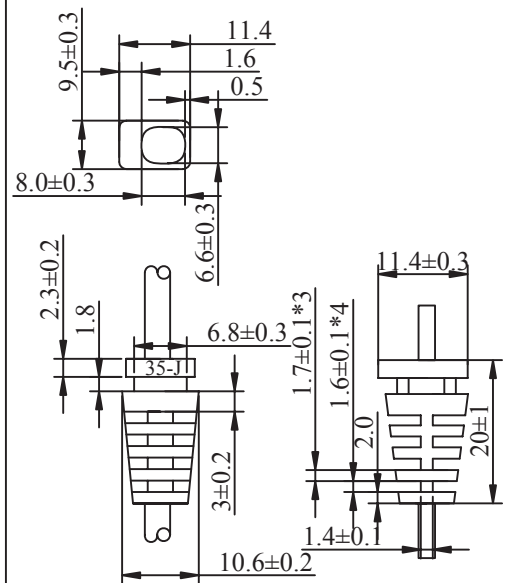
**J60950-1 (H22) 及び J55022 (H22)**

## 16. OVERALL DRAWING

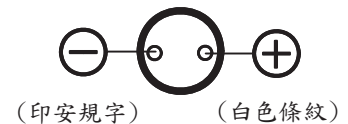
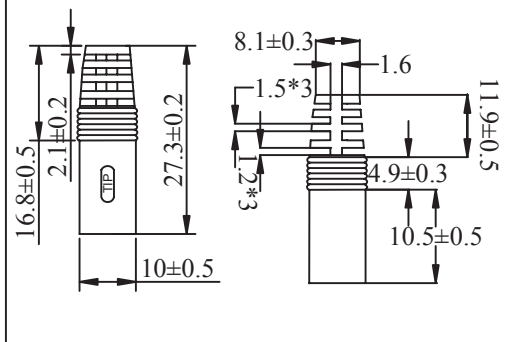
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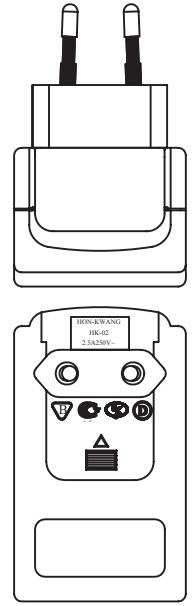
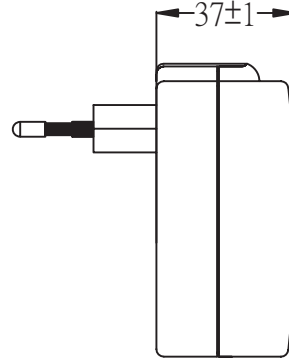
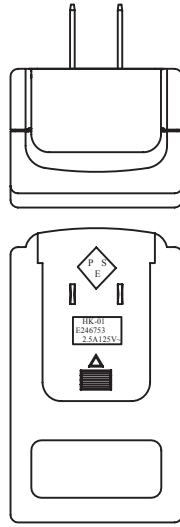
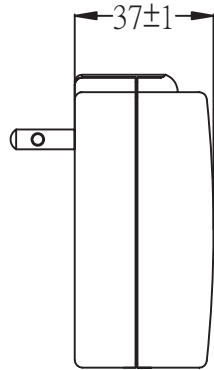
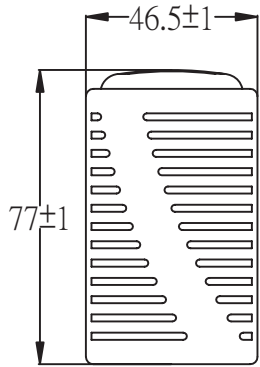
未注標尺寸公差: ±0.2



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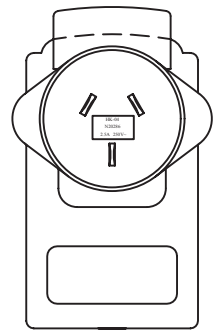
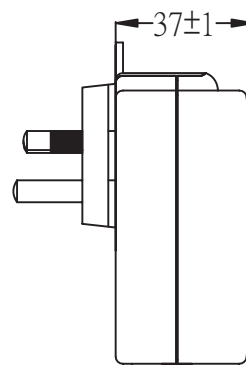
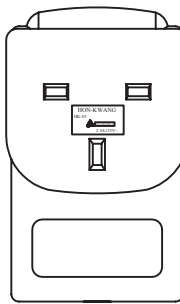
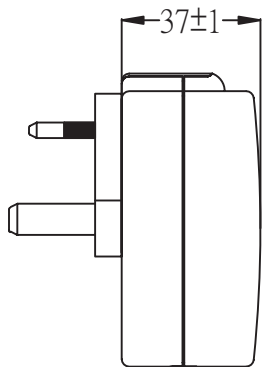
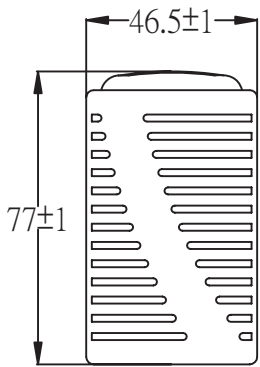
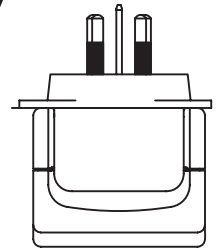
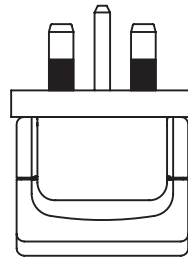


UNIT: mm



UL

TUV

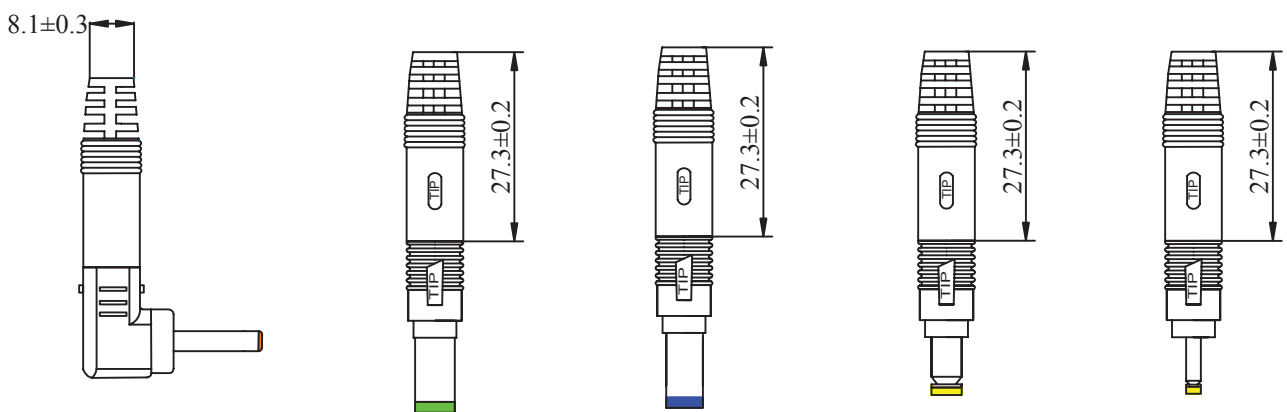
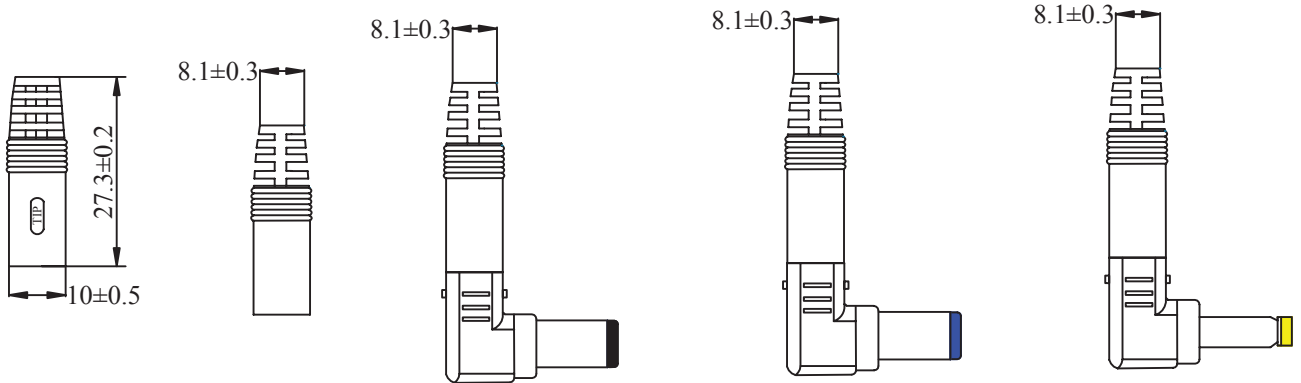


UK

SAA



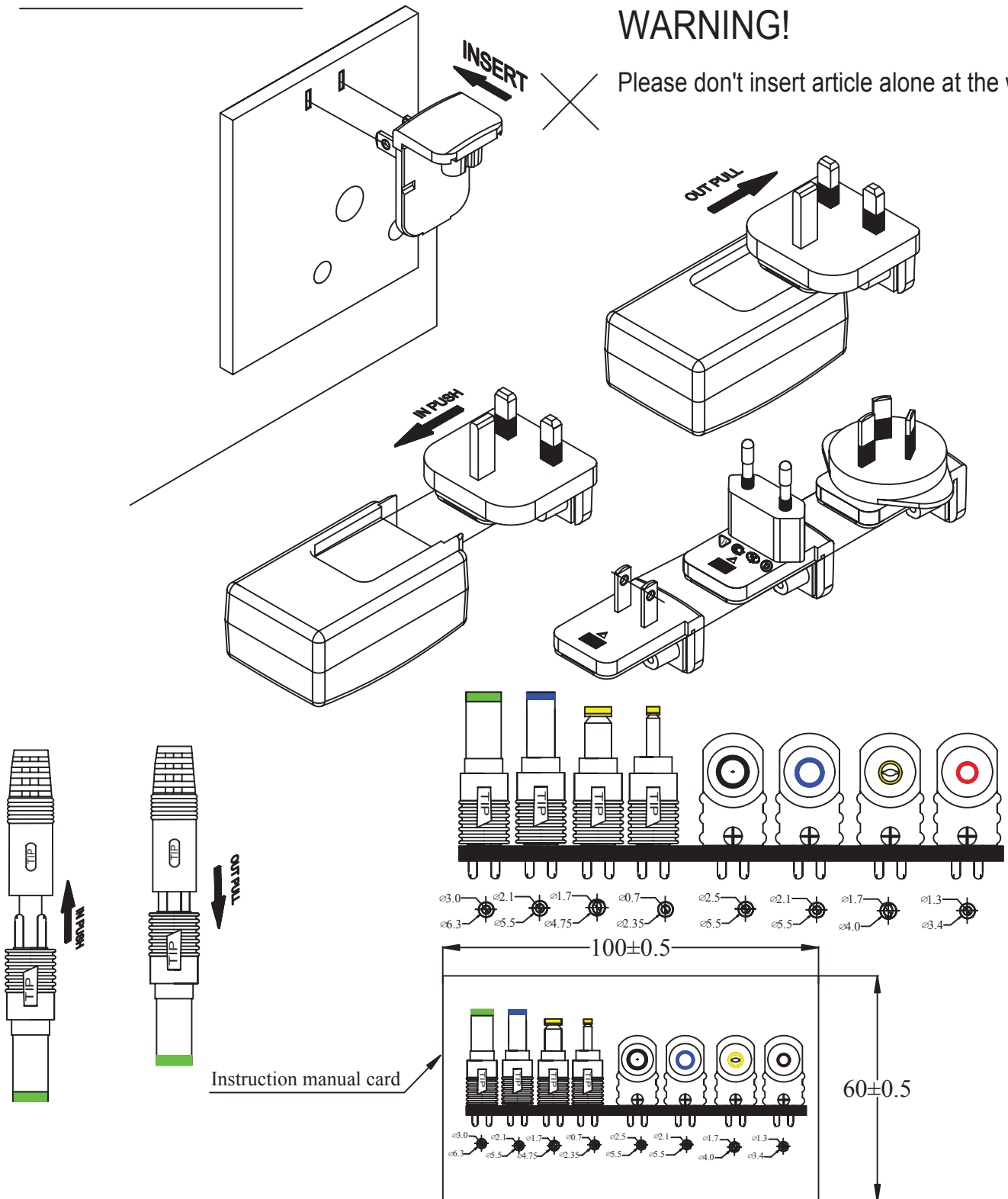
UNIT: mm



## 17. USE SPECIFICATION

### WARNING!

Please don't insert article alone at the wall.



Instruction manual card

## 18. PACKING

### 18.1 Inner Box

UNIT: mm

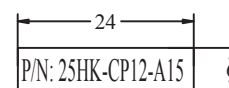
BOX (
  Normal BOX
  Corrugated BOX)

Length: 143

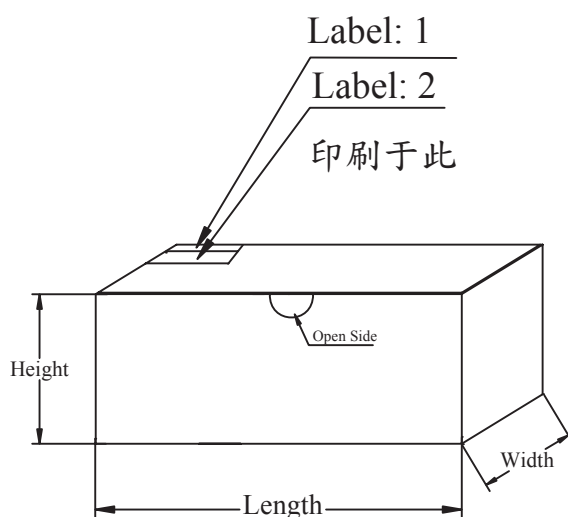
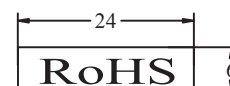
Width: 70

Height: 60

Label: 1



Label: 2



Material: A卡400磅(0.53t)White

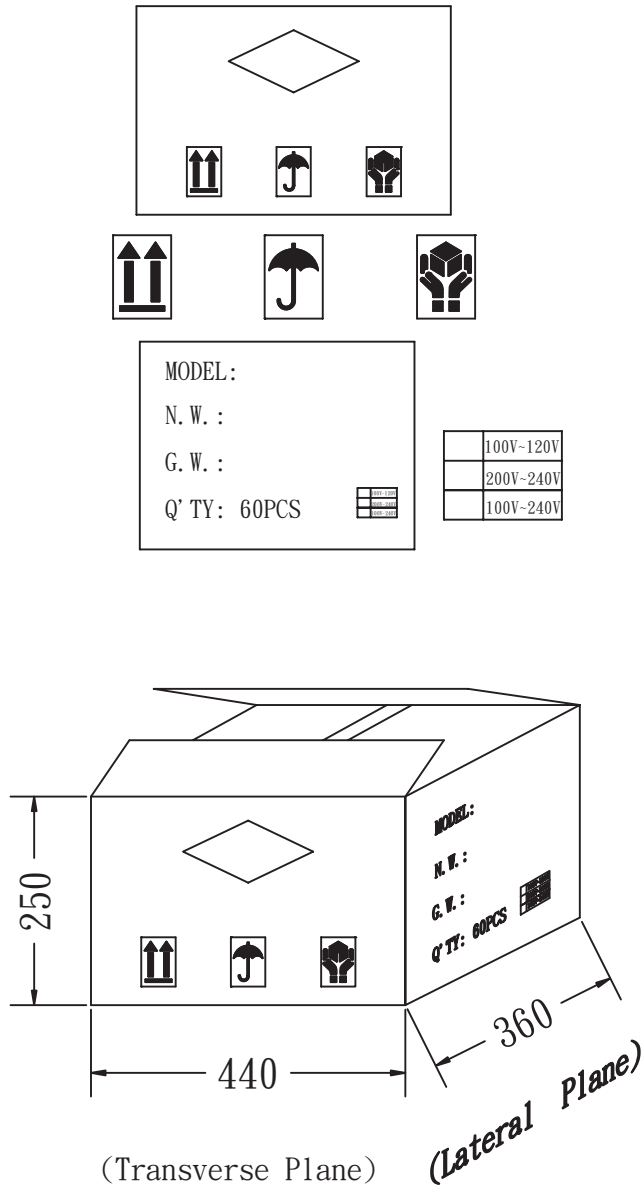
### NOTICE:

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

## 18. PACKING

### 18.2 Carton

UNIT: mm



19. MARKING

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

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

