

# SPECIFICATION FOR APPROVAL

## Ideal Power

CUSTOMER: \_\_\_\_\_

DESCRIPTION: I.T.E. POWER SUPPLY REV: (A3)

MODEL NO: HK-AJ-050A300-CP PART NO: HKSC-110369  
ROHS Compliance

DESIGNED NO: 110369-0317 DATE: MAR.19th.2012

| CUSTOMER APPROVED SIGNATURES |  |  | VENDOR APPROVED SIGNATURES  |  |   |
|------------------------------|--|--|---|--|---|
|                              |  |  |  |  |  |



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## 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 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: +5V

3.2 Output Regulation: 4.75-5.25V

3.3 Output Load Range: 3.0A

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

4.0 EFFICIENCY:  $\geq 76.41\%$  @ 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.

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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.

### 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

(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,

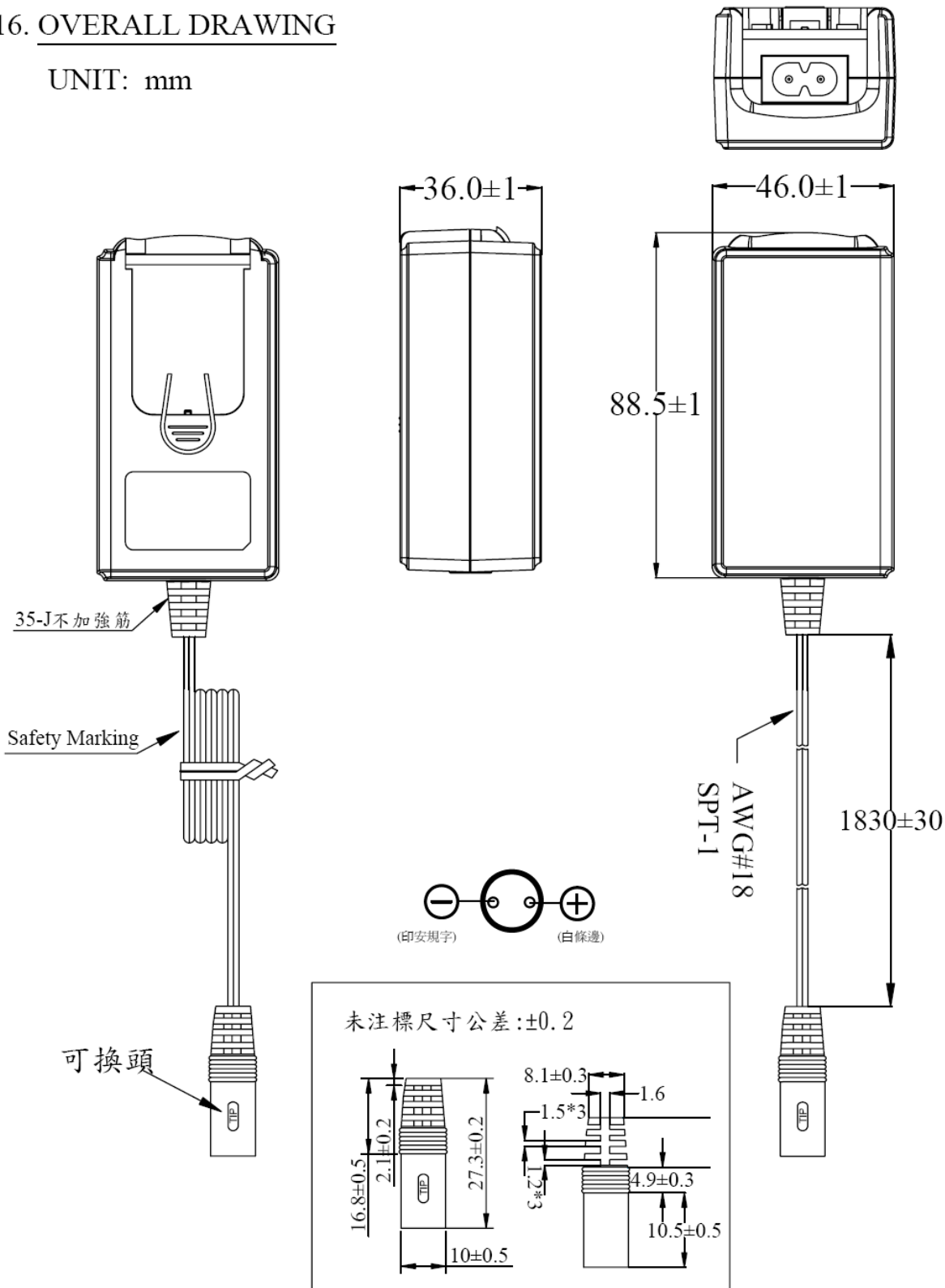
2nd Edition.2007-03 EN60950-1: 2006+A11 BS EN60950-1: 2006+A11

AS/NZS 60950-1:2003 inc amendment1,2&3.

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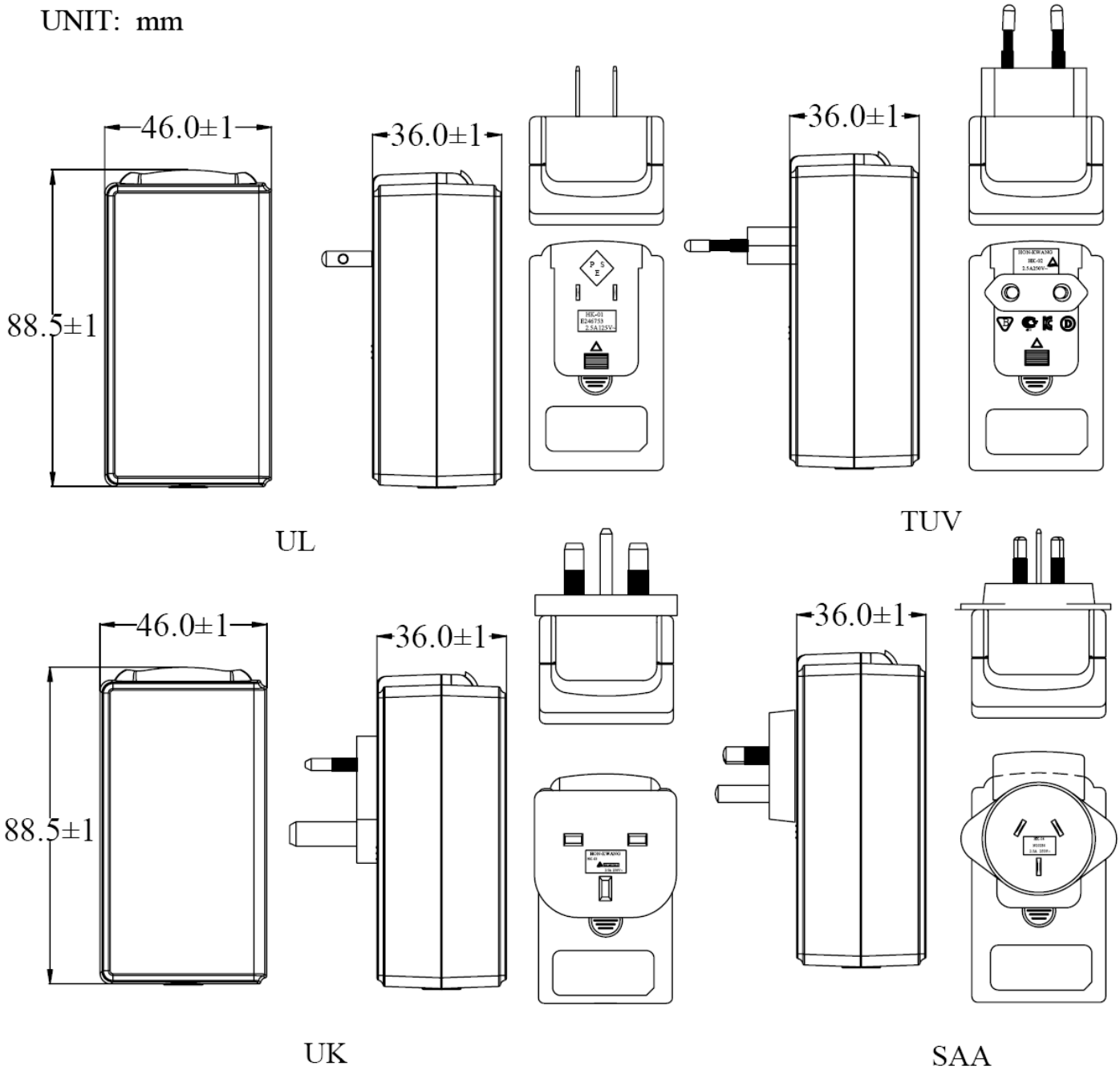
### 16. OVERALL DRAWING

UNIT: mm



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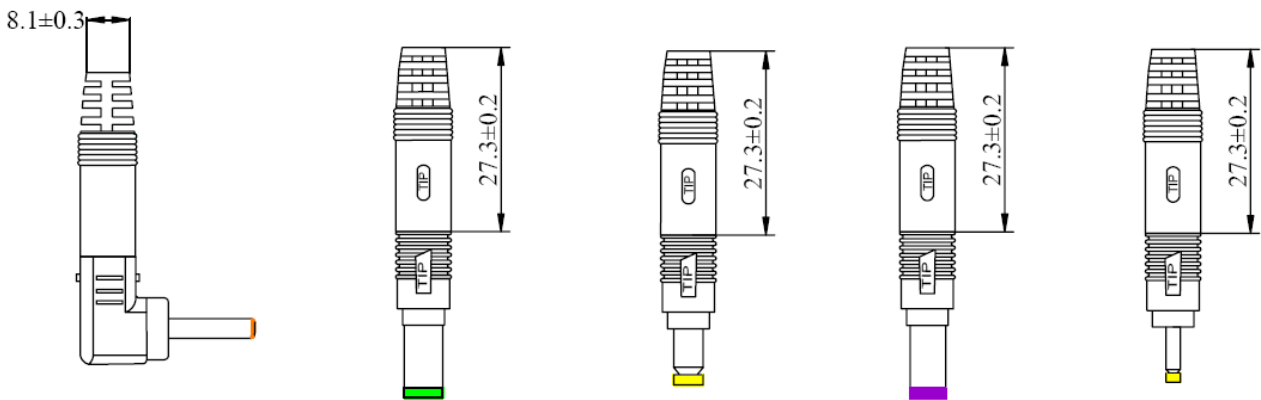
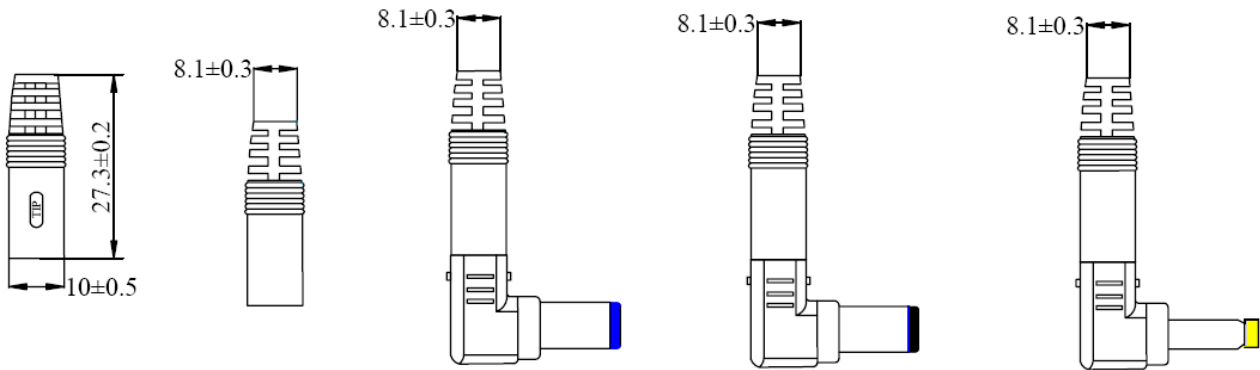
UNIT: mm





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UNIT: mm



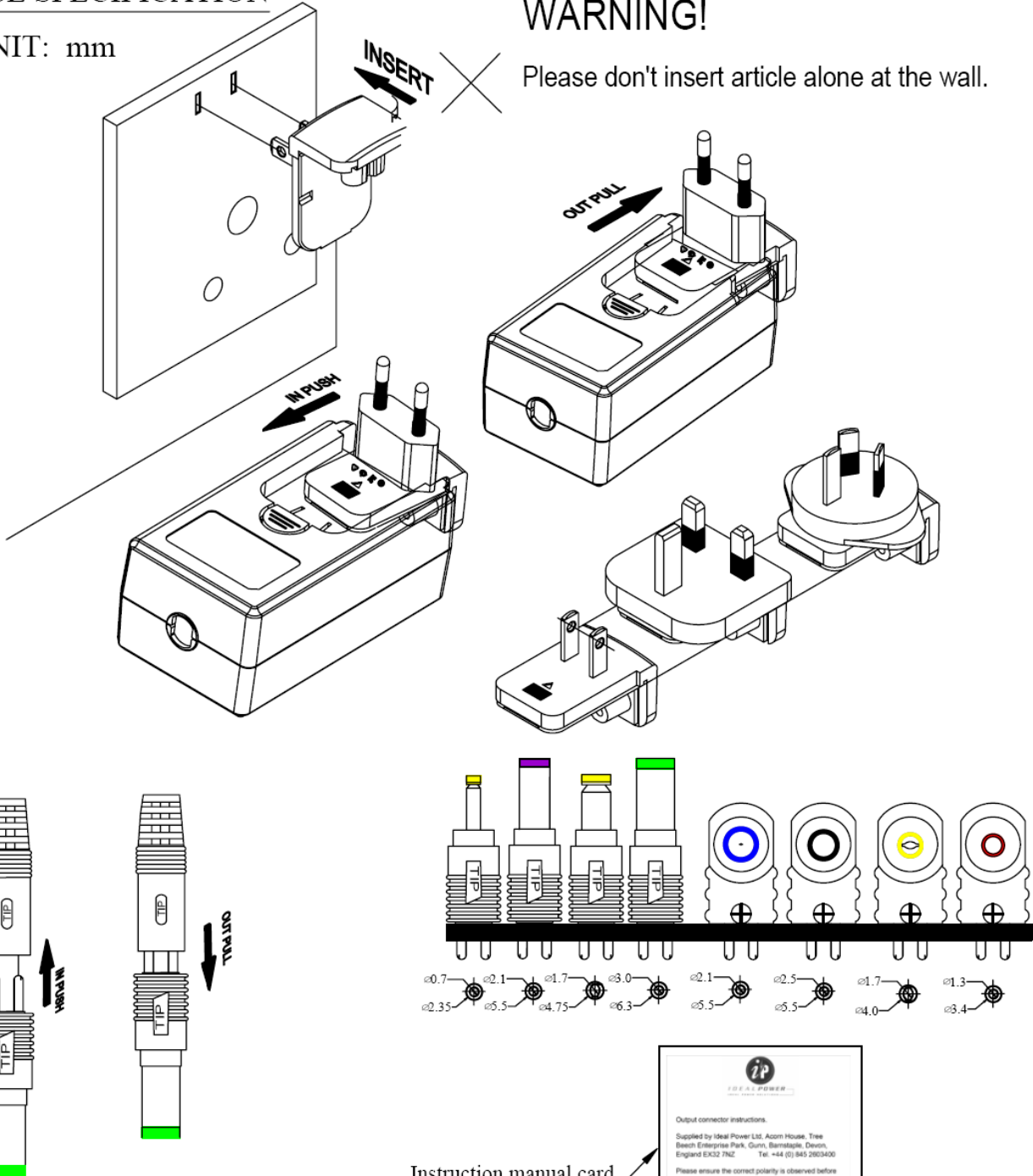
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### 17. USE SPECIFICATION

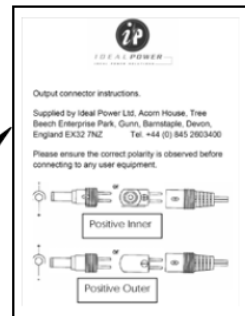
UNIT: mm

### WARNING!

Please don't insert article alone at the wall.



Instruction manual card



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## 18. PACKING

### 18.1 Inner Box

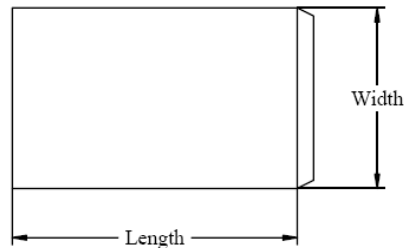
UNIT: mm



PE BAG

Length :

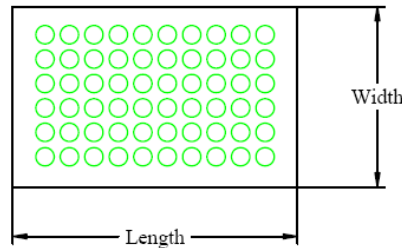
Width :



BUBBLE BAG

Length:

Width:

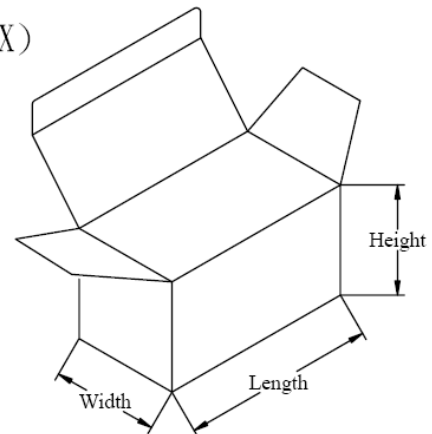


BOX(  Normal BOX  Corrugated BOX)

Length: 145

Width: 75

Height: 65



### NOTICE:

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

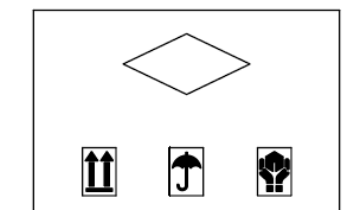
注意: 樣品使用的小白盒尺寸可能與此圖面尺寸不同, 此圖面尺寸是用于生產時的包裝.

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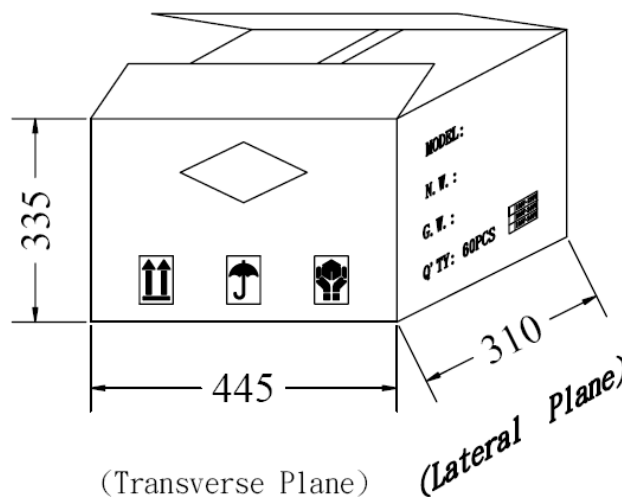
### 18.2 Carton

UNIT: mm



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

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



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### 19. MARKING

0.2mm 變色龍 NAME-PLATE:SILVER CHARACTERS BLACK BACKGROUND.

UNIT: mm

MMYYC  
 month year  
 made in China  
 by Hon-kwang

