



# SPECIFICATION FOR APPROVAL

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

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

MODEL NO: HK-BE-180A222-D5 PART NO: HKSC-170411

DESIGNED NO: 170411-0613 DATE: JUL.31th.2017

CUSTOMER APPROVED SIGNATURES			VENDOR APPROVED SIGNATURES		
			A circular blue stamp containing the text '經理' (Manager) at the top, '2017.07.31' in the middle, and '田青松' (Tan Qingsong) at the bottom.	A circular blue stamp containing the text '課長' (Section Chief) at the top, '2017.07.31' in the middle, and '歐陽建瓊' (Ouyang Jianqiong) at the bottom.	A circular blue stamp containing the text '繪圖員' (Draftsman) at the top, '2017.07.31' in the middle, and '羅珍珍' (Luo Zhenzhen) at the bottom.





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## 1.0 INTRODUCTION

This document specifies a switching power supply with a output of +18V, 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: 1.0A Max

## 3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +18V

3.2 Output Regulation: 17.1-18.9V

3.3 Output Load Range: 0-2.22A

3.4 Output Ripple & Noise: 200mV Max @20MHz bandwidth with

10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY:  $\geq 87.58\%$  @ average of 25/50/75/100% loads 115V&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 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 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 6.3 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 15 Class B  
EN55032:2015 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+A1:2015  
IEC61000-4-2:2008 IEC61000-4-6:2013  
IEC61000-4-8:2009  
IEC61000-4-11:2004  
CISPR 32:2015(Ed2.0) AS/NZS CISPR 32:2015;  
CISPR 24:2010+A1:2015(Ed2.1)

## 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 100,000 hours at 25 centigrade degrees.

## 15.0 SAFETY

The switching power supply has approved by the following safety standards:

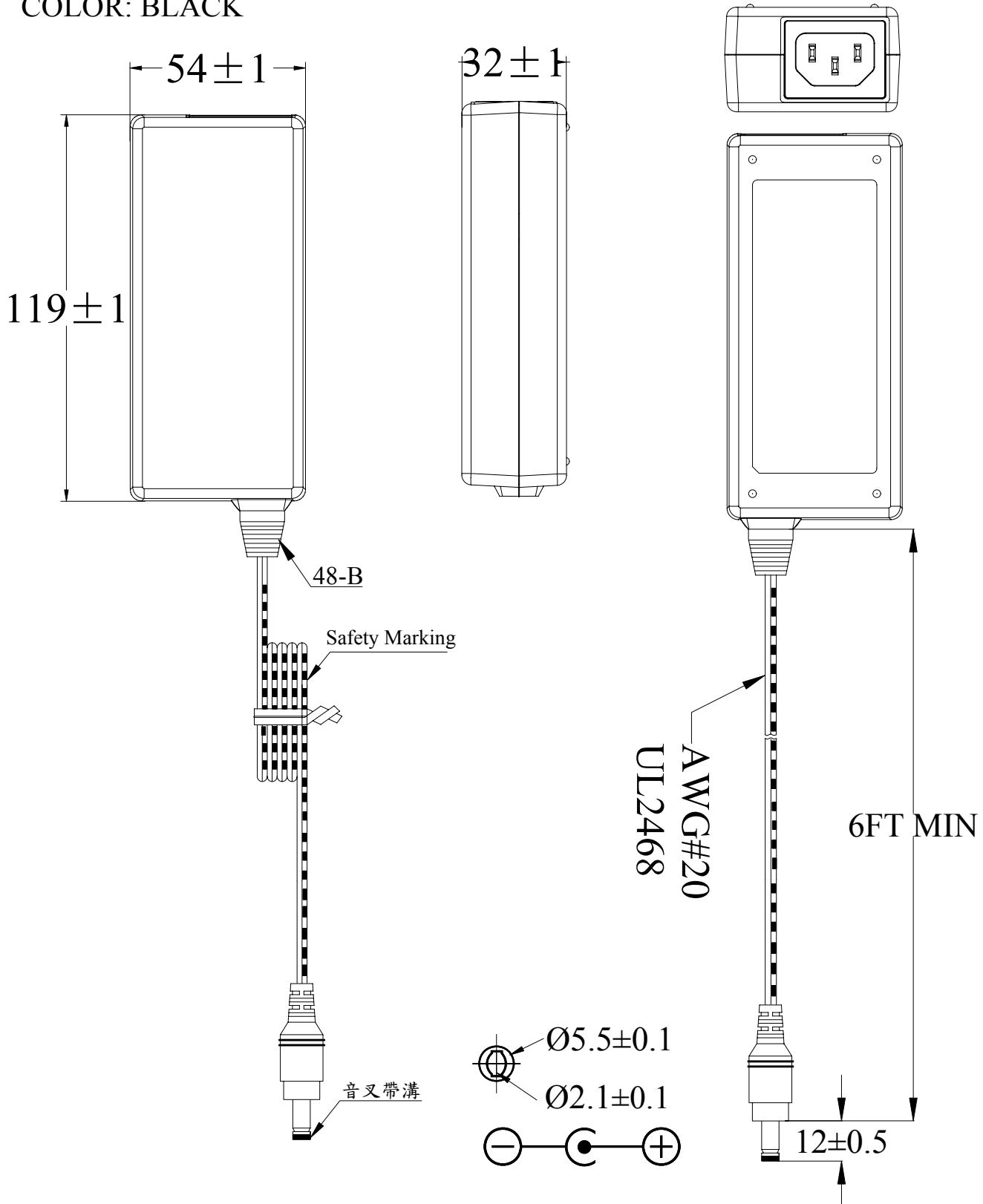
UL 60950-1, 2nd Edition,2014-10-14  
EN60950-1:2006+A11+A1+A12+A2 BS EN60950-1:2006+A2  
AS/NZS 60950.1:2015



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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)

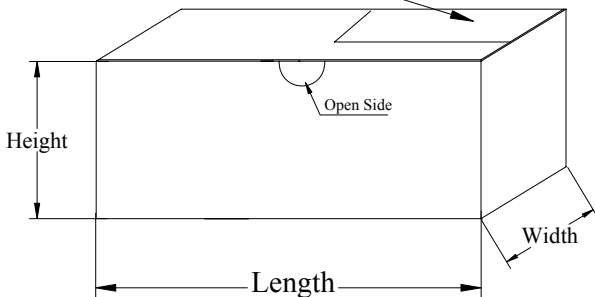
Length:135

Width:60

Height:55



標籤貼于白盒右上角,如下示意圖:



R2.5

注:

1. 標籤顏色紅色部份色號為: Pantone 485C, 黑色部份色號為: Black;
2. 144-0974為客戶RS編號及條碼掃描內容, 字高為4mm min, 條碼為EAN128 format;
3. 25HK-BE-180A222-D5-RS為客戶料號, 字高為2.7mm min;
4. Made in China字高為2.7mm min;
5. 1為出貨批次, 第一批為1, 第二批為2, 以此類推;
6. YY/WW為週期, Year/Week.

### 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.



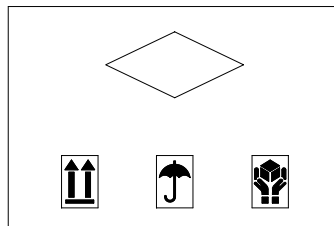


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## 17. PACKING

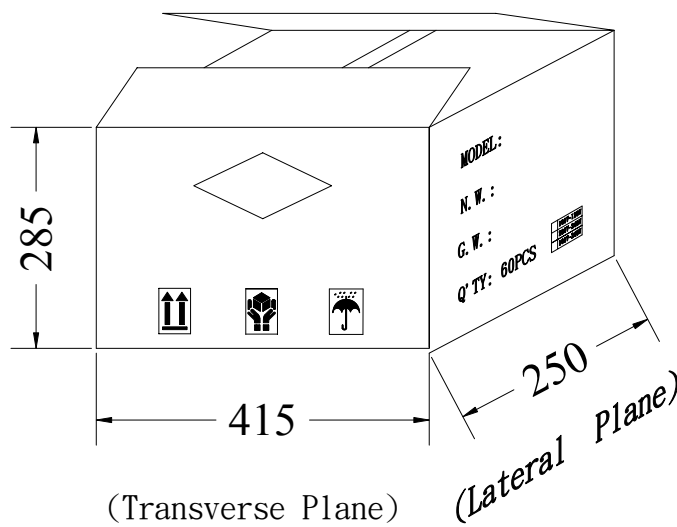
### 17.2 Carton

UNIT: mm



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

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





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### 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

