



SPECIFICATION FOR APPROVAL

CUSTOMER: _____

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

MODEL NO: HK-AB-300A100-DH6 PART NO: HKSC-180196

DESIGNED NO: 180196-0517 DATE: JUN.07th.2018

CUSTOMER APPROVED SIGNATURES			VENDOR APPROVED SIGNATURES		
			A circular blue stamp with the text '經理' (Manager) at the top, '2018.06.07' in the middle, and '田青松' (Tan Qingsong) at the bottom.	A circular blue stamp with the text '課長' (Section Chief) at the top, '2018.06.07' in the middle, and '王令彬' (Wang Lingbin) at the bottom.	A circular blue stamp with the text '繪圖員' (Draftsman) at the top, '2018.06.07' in the middle, and '鐘國珍' (Zhong Guozhen) at the bottom.



MODEL NO. :	HK-AB-300A100-DH6	PAGE NO. :	1 OF 9
PART NO. :	HKSC-180196	ISSUED DATE:	2018.06.07
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

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
19. TEST REPORT



MODEL NO. :	HK-AB-300A100-DH6	PAGE NO. :	2 OF 9
PART NO. :	HKSC-180196	ISSUED DATE:	2018.06.07
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

1.0 INTRODUCTION

This document specifies a switching power supply with a output of +30V, 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: 0.8A Max

3.0 OUTPUT REQUIREMENTS

3.1 Output Voltage: +30V

3.2 Output Regulation: 28.5-31.5V

3.3 Output Load Range: 0-1.0A

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

4.0 EFFICIENCY: $\geq 86.94\%$ @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-AB-300A100-DH6	PAGE NO. :	3 OF 9
PART NO. :	HKSC-180196	ISSUED DATE:	2018.06.07
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

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-AB-300A100-DH6	PAGE NO. :	4 OF 9
PART NO. :	HKSC-180196	ISSUED DATE:	2018.06.07
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

12.0 ENVIRONMENTAL CONDITIONS

The switching power supply can withstand the following environmental conditions:

12.1 Storage Temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Relative Humidity: 10% ~ 95%

12.2 Operation Temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Relative Humidity: 10%~95%

13.0 EMI / EMC

The switching power supply has approved by the following standards:

GB17625.1-2012; GB 9254-2008 CNS 14336-1(99年版)

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

FCC PART 15 Class B

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

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

AS/NZS 60950.1:2015 GB4943.1-2011 CNS 13438 (95年完整版)

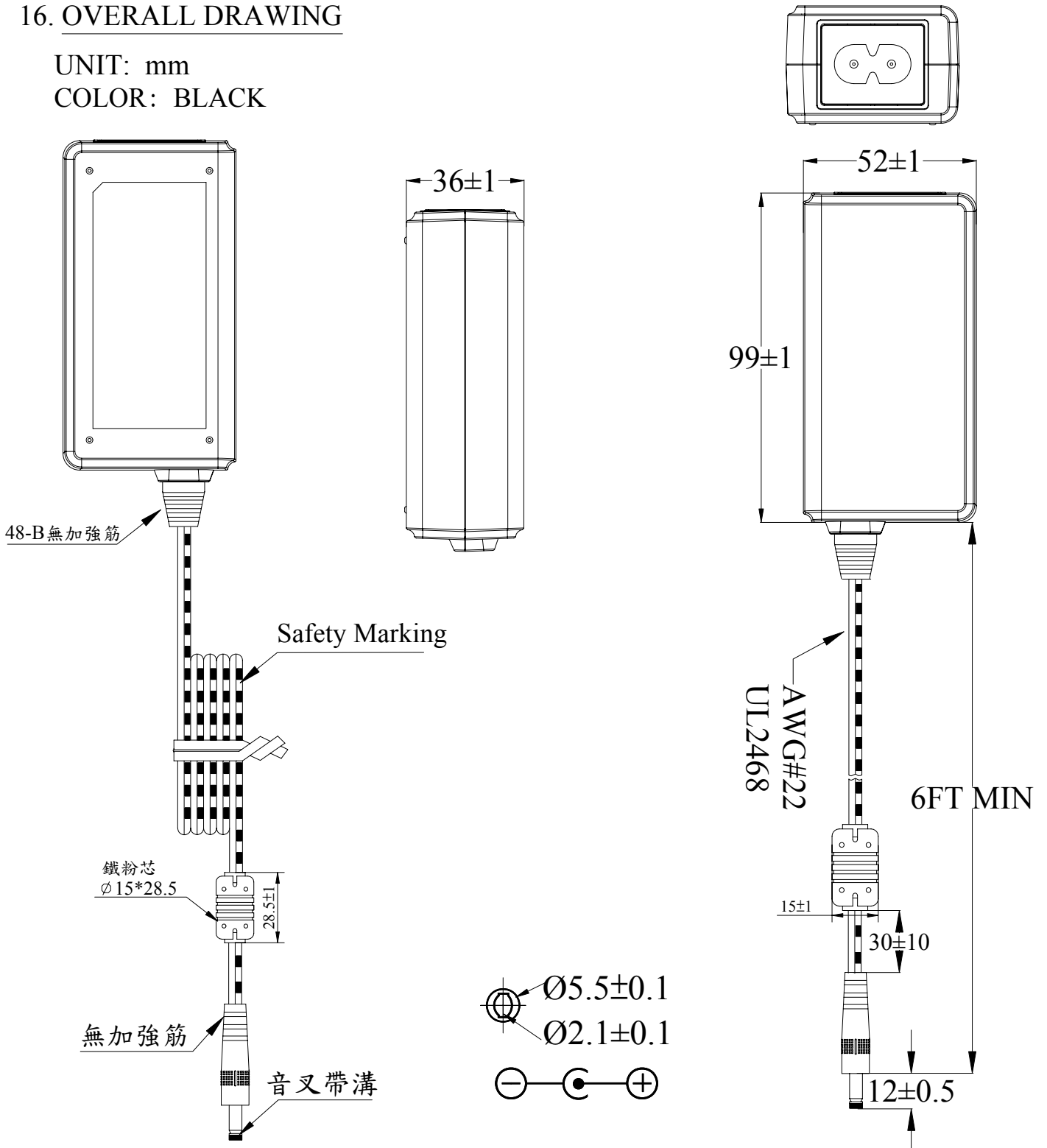
K 60950-1(2011-12)



MODEL NO. :	HK-AB-300A100-DH6	PAGE NO. :	5 OF 9
PART NO. :	HKSC-180196	ISSUED DATE:	2018.06.07
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

16. OVERALL DRAWING

UNIT: mm
 COLOR: BLACK





MODEL NO. :	HK-AB-300A100-DH6	PAGE NO. :	6 OF 9
PART NO. :	HKSC-180196	ISSUED DATE:	2018.06.07
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

17. PACKING

17.1 Inner Box

UNIT: mm

BOX(Normal BOX Corrugated BOX)

Length: 120

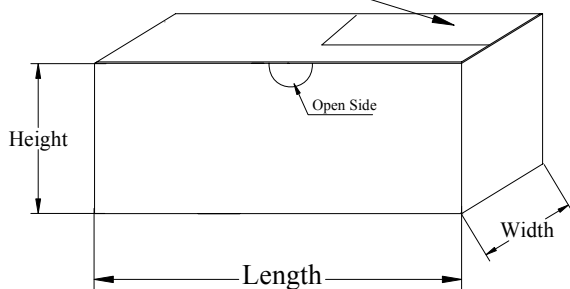
Width: 60

Height: 52



標籤貼于白盒右上角,如下示意圖:注:1. 標籤顏色紅色部份色號為: Pantone 485C, 黑色部份色號為:Black;

- 175-2786為客戶RS編號及條碼掃描內容,字高為4mm min,條碼為EAN128 format;
- 25HK-AB-300A100-DH6-RS為客戶料號,字高為2.7mm min;
- Made in China字高為2.7mm min;
- 1為出貨批次,第一批為1,第二批為2,以此類推;
- 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。

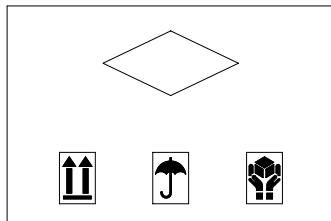


MODEL NO. :	HK-AB-300A100-DH6	PAGE NO. :	7 OF 9
PART NO. :	HKSC-180196	ISSUED DATE:	2018.06.07
DESCRIPTION :	I.T.E. POWER SUPPLY	REV:	(A0)

17. PACKING

17.2 Carton

UNIT: mm



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

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

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

