

CUSTOMER:

DESCRIPTION: I.T.E. POWER SUPPLY REV: (A1)

MODEL NO: <u>HK-AW-240A063-CP</u> PART NO: HKSC-161215

DESIGNED NO: 161215-1217 DATE: DEC.30th.2016

CUSTOMER APPROVED SIGNATURES		VENDOR A	PPROVED SI	GNATURES
		經理 2016.12.30 田青松	課長 2016.12.30 歐陽建瓊	繪圖員 2016.12.30 羅珍珍



CUS	STOMER		PART NO		HKSC-16	1215
MOD	EL NO	НК-АW-240A063-CP	REV		(A1)	
REV	DATE		SCRIPTION			REMARKS
A0	16.12.17					羅珍珍
A1	16.12.30	將電流改為0.63A.(Change An	np from 0.5A to	0.63A.)		羅珍珍
			.ن ل	NGINEER A		Τ.
SAFETY APPROVAL:		E.	INGINEEK /	APPKUVF	AL.	
		TY APPROVAL:	ELECTRICAL		STRU	STRUCTURAL
		張偉松	歐陽建瓊	王令彬	沈亻	呆良



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1.0 INTRODUCTION

This document specifies a switching power supply with a output of +24V, 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: 0.4A Max

3.0 OUTPUT REQUIREMENTS

- 3.1 Output Voltage: +24V
- 3.2 Output Regulation: 22.8-25.2V
- 3.3 Output Load Range: 0-0.63A
- 3.4 Output Ripple & Noise: 200mV Max @20MHz bandwidth with 10UF/50V capacitance and 104/50V ceramic capacitor.

4.0 EFFICIENCY: $\geq 84.17\%$ @ 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

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 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: $10\% \sim 95\%$

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
 IEC61000-4-8:2009

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.

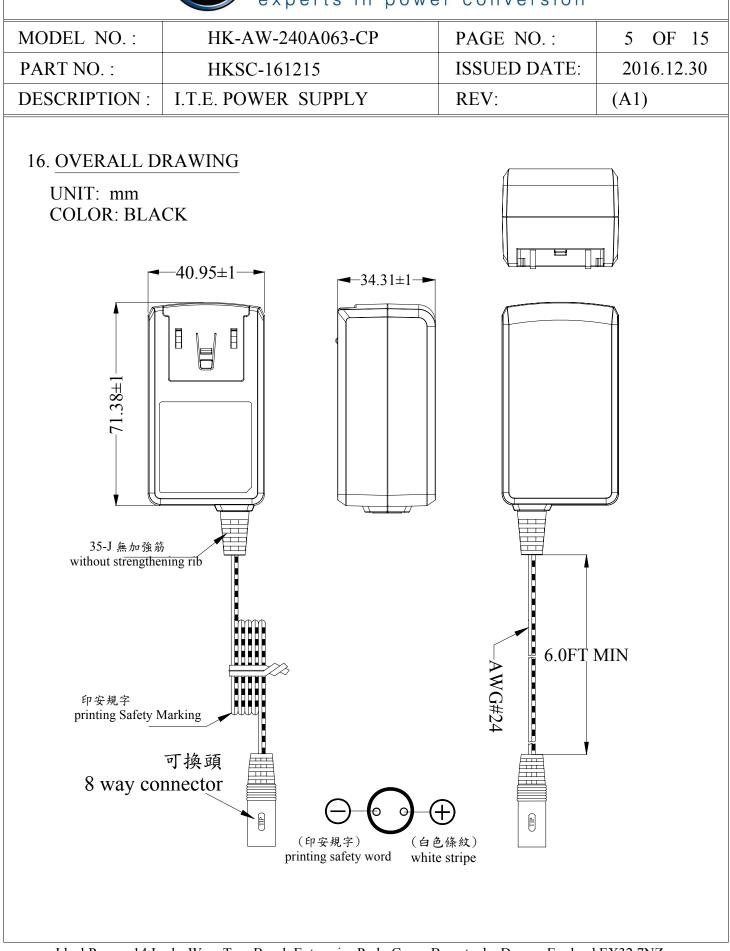
14.2 MTBF

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

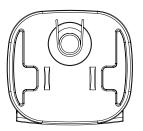


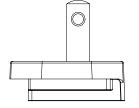


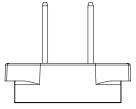


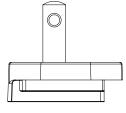
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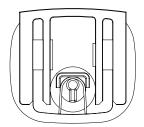
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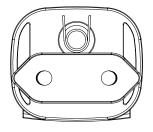


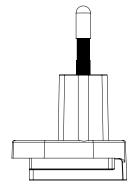


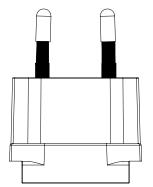


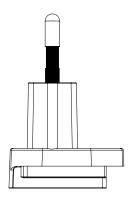
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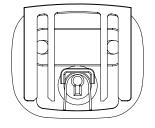
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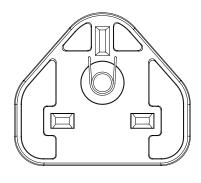


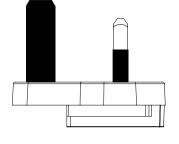
TUV

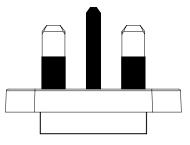


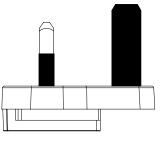
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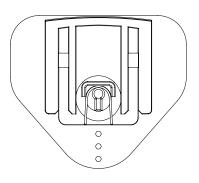
UNIT: mm



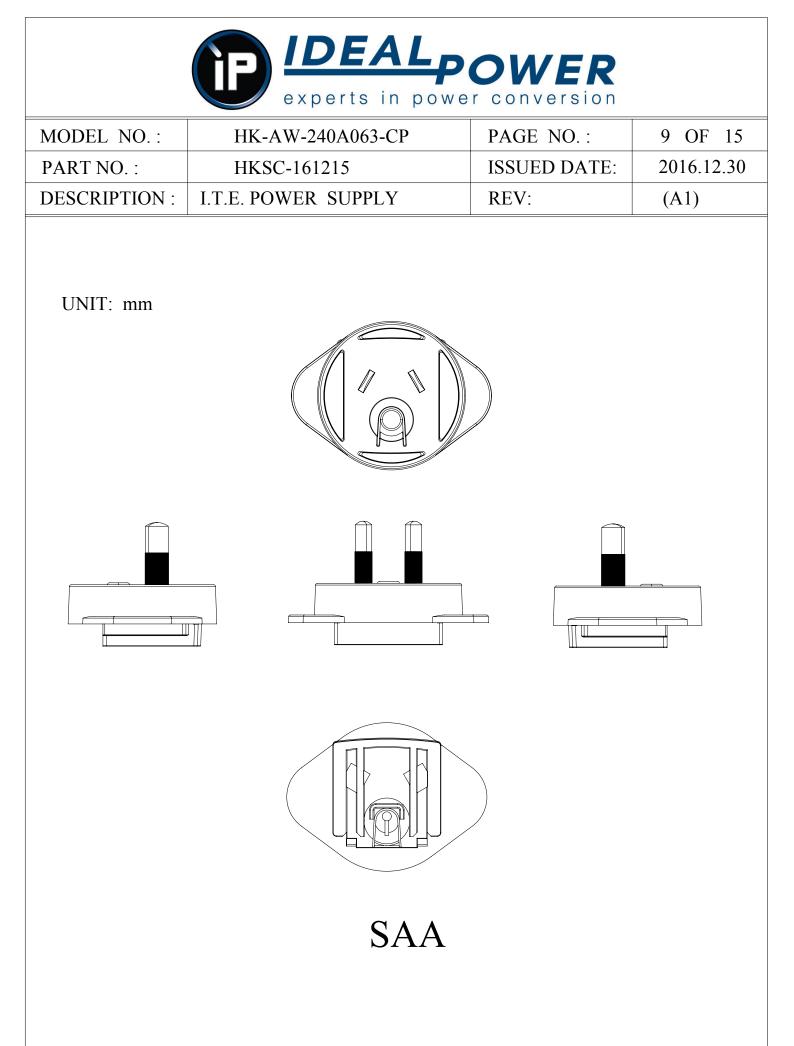








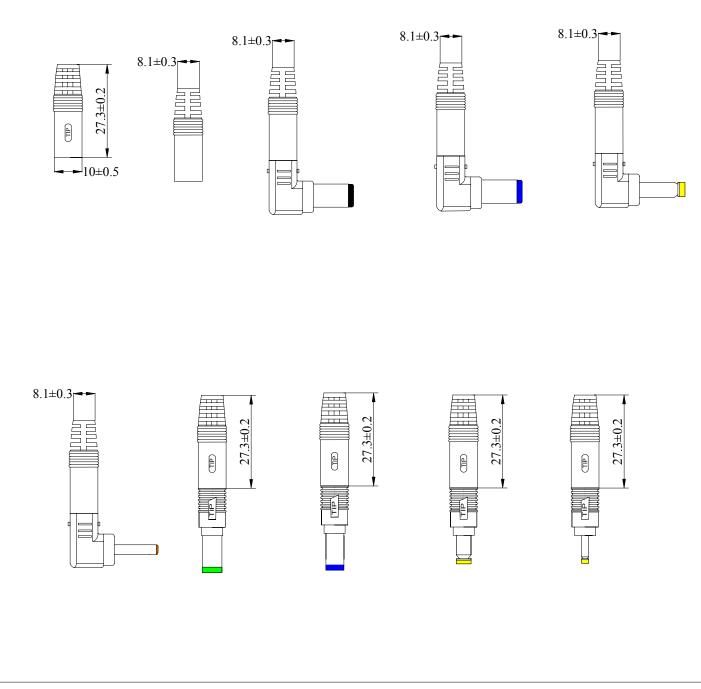
UK

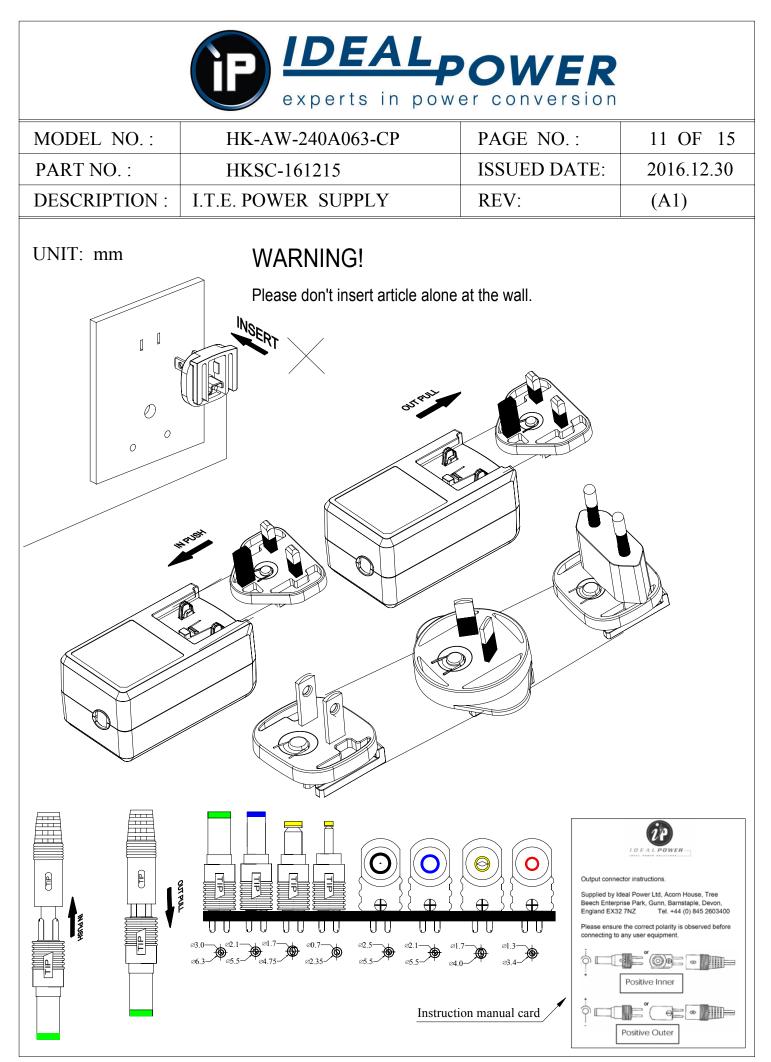




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UNIT: mm

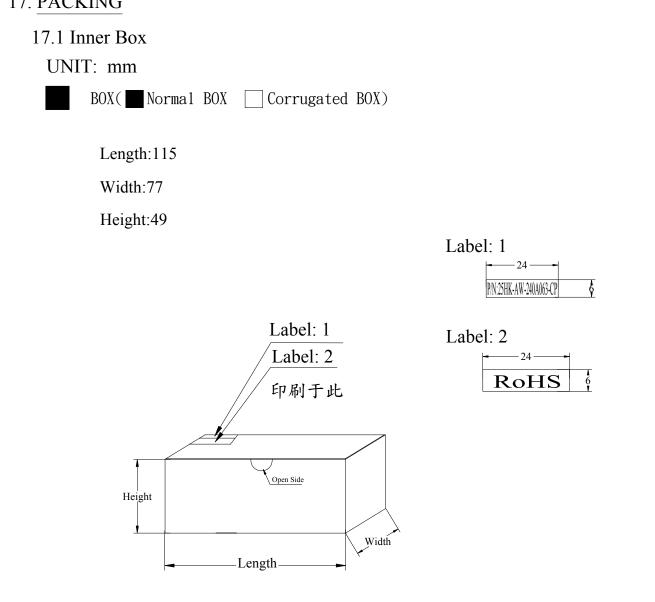






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17. PACKING



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.

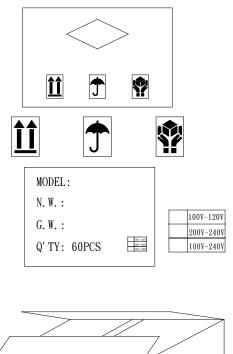


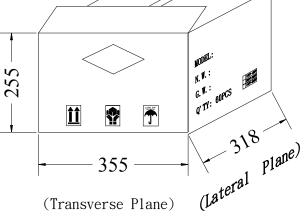
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17. PACKING

17.2 Carton

UNIT: mm

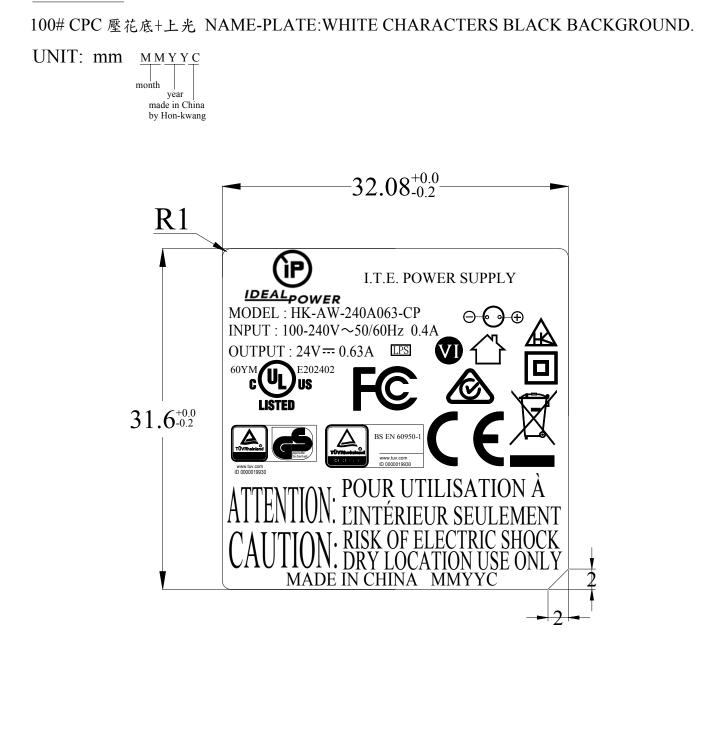






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18. MARKING



NOTICE OF COMPLETION AND AUTHORIZATION TO APPLY THE UL MARK



Hon Kwang Electric Co Ms. SARA CHENG 246 Feng-jen Road Feng-shan District Kaohsiung 830, Tw	Ltd		09/01/2015
Our Reference:	File E202402, Vol. X1, Report Reference No. E202402-A92	Project Number	4787002929
Your Reference:	HKS-A15053		
Project Scope:	UL/CUL: I.T.E. POWER SUPPLY, M	IODEL HK-AW-XXXYZZZ-V	VW (E202402-A92), Modify

Dear Ms. SARA CHENG:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E202402, Vol. X1, Report Reference No. E202402-A92.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site: <u>http://www.ul.com/EAResponsibilities</u>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Neilson Chiu +886 2 28967790 Project Engineer Neilson.Chiu@ul.com Reviewed by:

Bruce A. Mahrenholz 847-664-3009 CPO Director Bruce.A.Mahrenholz@ul.com

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