▼H 华兴变压器制造厂有限公司 WAH HING TRANSFORMER MFY. LTD.

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SPECIFICATION FOR APPROVAL						
Customer: Ivent Solutions	Limited					
Customer P/N:		Customer Rev.:				
Customer Model No.:		Customer ID: I051				
Wah Hing Model No.: S0184	14C	Wah Hing Rev.: 01				
Article: SWITCHING POWE	R SUPPLY(AC-DC)					
Standard: CB/CE/SAA/ETL/I	EC60950-1	Safety No.:				
Catalog No.:		Date: 14-Sep-17				
Remarks: Please note items listed	in page.2 that requires	your consent for deviation.				
Eng. Dept. 吴凌达	Eng. Dept. 邹成明	Eng. Dept. 卢 闽				
Designed/Maker	Checked by	Approved by				
Please evaluate the WAH HING ☐ Approved ☐ Rejected ☐ Conditional Approved	samples, sign this appr	roval sheet and return to				
Comments:						
Customer Approved by	Signature & Da	ate				

WAH HING TRANSFORMER MFY. LTD.PRODUCT SPECIFICATION

Deviation and History

Please note items listed below does not meet your specifications and requires your consent for deviation:

	Item	Customer specification	Sugg	estion specifica	ntion
					<u>_</u>
					
Remarks					
TCHIMIA.	•				
	<u> </u>				
	01	update data plate content		Issac wu	14-Sep-17
		update data plate content First issue.		Issac wu X.W.Liu	14-Sep-17 08-Sep-16

Wah Hing Model No.: S01844C

Customer P/N:

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1.0 INTRODUCTION

The document specifies the AC/DC switching power supply with one output, the total output power is 7.5W Max. The unit meet RoHS directive of the European Union. The unit meet US Department of Energy (DoE) Proposed Rule for External Power Supplies level VI.

2.0 INPUT CHARACTERISTICS

2.1 Input Voltage : AC100-240 V Performance guarantee

Input Voltage Range : AC90-264 V

2.2 Input Current : 0.3Arms max. @ AC100-240 V full load

2.3 Operating Frequency : 50-60 Hz Operating Frequency Range : 47-63 Hz

2.4 Standby Power : ≤ 0.1 W @ AC100-240VAC 60/50Hz

2.5 Input Fuse : 4.7Ω 1W fusible resistor

2.6 Input Connector : US/EU/UK/AU Interchangeable Plug

3.0 OUTPUT CHARACTERISTICS

3.1 Output Voltage : DC5.0V+/-5% @ AC100-240VAC Load 0A

DC5.0V+/-5% @ AC100-240VAC Load 1.5A

3.2 Output Current

Rated loading current : 1500 mA

Minimum loading current : 0 A

3.3 Ripple and Noise : 150 mV_{p-p} max. @ AC100-240VAC full load

Ambient temp. 25°C

The measurement for differential ripple and noise the output will be using oscilloscope, with 20MHz bandwidth. A 10uF electrolytic capacitor and a 0.1uF ceramic capacitor should be parallel with output load.

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3.4 Average Efficiency : 76.65 % min. @ AC115/230VAC After temperature is saturated, measurement be made at DC cord output terminals. Efficiency is averaged over 25%, 50%, 75%, 100% of load.

3.5 Line Regulation : $\leq \pm 5\%$ @ AC100-240VAC full load

3.6 Load Regulation : $\leq \pm 10\%$ @AC100-240VAC 60/50Hz

3.7 Hold-up Time : 10mS min @ AC100-240VAC full load During operation, cut off the primary power source until the 90% rated output voltage is falled.

3.8 Start up time : 3S max @AC100-240VAC 60/50Hz

During turn on output voltage shall not exceed its nominal voltage by more than 10% and all output shall reach their steady state values within 3seconds of turn on.

4.0 PROTECTION FUNCTION

4.1 Over-current Protection : 2.0Amax @AC100-240VAC 60/50Hz

The power supply shall be hiccupped when any output operating in overload condition (set@ MAX2.0A) under any line condition for an indefinite period of time the power supply shall be auto recovered when the fault condition is removed.

4.2 Short circuit protection :

The power supply shall be hiccupped and no damage shall be occurred when any output operating in over temperature conditions under any line conditions for an indefinite period of time the power supply shall be auto recovered when the fault condition is removed.

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5.0 ENVIRONMENTAL CONDITION

5.1 Non-operation

5.1.1 Ambient temperature : $-20-70 \,^{\circ}$ C

5.1.2 Relative humidity : 10-90 %

The power supply shall be capable of withstanding the above environmental conditions for extended periods of time, without sustaining electrical and/or mechanical damage and subsequently operational deficiencies.

5.2 Operating

5.2.1 Ambient temperature : $0-40 \,^{\circ}\text{C}$

5.2.2 Relative humidity : 20-80 %

The power supply shall be capable of operating continuously in any mode without performance deterioration in the above environmental condition.

6.0 SAFETY AND EMC STANDARD

6.1 Safety standard : IEC60950-1

6.2 EMC Standard : EN55022 class B

6.3 Immunity to electrostatic discharge(ESD) according : EN61000-4-2

6.4 Immunity to radiated electromagnetic field according : EN61000-4-3

6.5 Immunity to electrical fast transients(burst) according : EN61000-4-4

6.6 Surge capability according : EN61000-4-5

6.7 Immunity to conducted disturbances, induced by radio frequent fields according: EN61000-4-6

6.8 Immunity to voltage dips short interruptions and voltage variations, test according : EN61000-4-11

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6.9 Dielectric strength : AC3000V 60S Cut off current 5mA

Primary to secondary

6.10 Insulation Resistance : DC500V 60S 10M Ω MIN

Primary to secondary

7.0 RELIABILITY AND QUALITY CONTROL

7.1 Burn-in

7.1.1Burn-in Ambient temperature : $40 \,^{\circ}$ C

7.1.2 Burn-in Time : 2-4 hr.

AC source 230Vac/50Hz, 80-100% loading.

7.2 MTBF(mean Time Between Failure)(MIL-HDBK-217F)

MTBF 100000 hr @230V Ambient temp 40°C

8.0 MECHANICAL

8.1 Case

8.1.1 Case Material : Plastic

8.1.2 Case Dimension : L62*W39.2*H31.8 mm

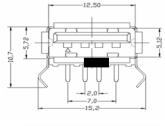
8.1.3 Case Colour : Black

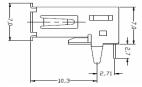
8.2 Weight(Adaptor unit) : 105 g (about)

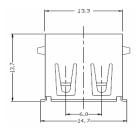
8.3 Input plug type : US/EU/UK/AU Interchangeable Plug

8.4 Output terminal

8.4.1 Output plug type : USB type A(Short PIN2/PIN3)



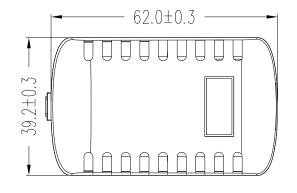


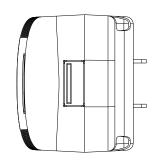


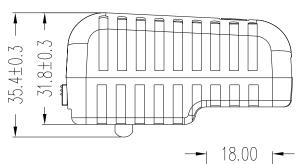
Wah Hing Model No.: S01844C

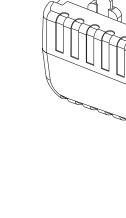
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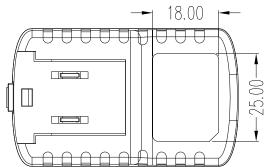
8.5 Dimensions And Diagram











Notice:

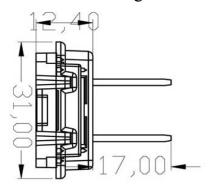
1. Unit: mm

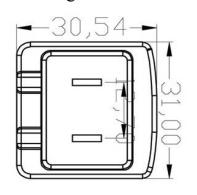
2. The otherwise tolerance is follows: ± 0.2

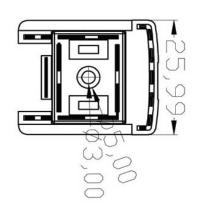
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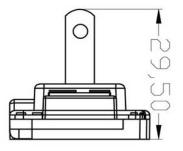
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8.5.1 US Plug Dimensions and Diagram

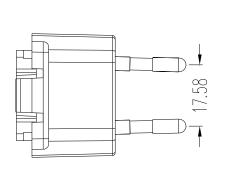


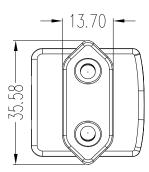


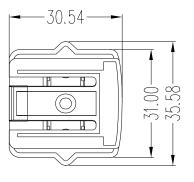


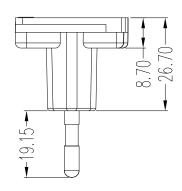


8.5.2 EU Plug Dimensions and Diagram



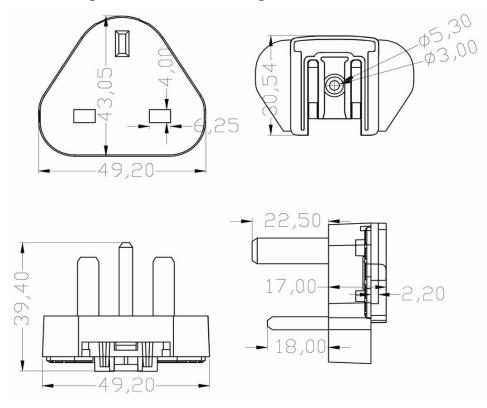






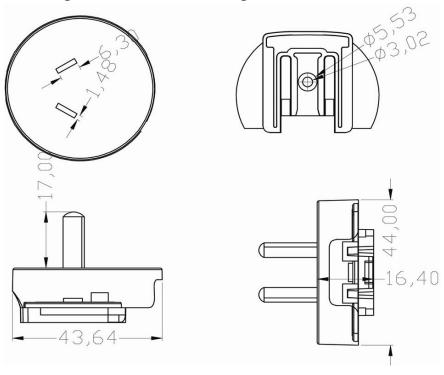
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8.5.3 UK Plug Dimension and Diagram



8.5.4 AU Plug Dimensions and Diagram

Customer P/N:



Wah Hing Model No.: S01844C

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PRODUCT SPECIFICATION 9.0 PROPOSED ARTWORK MARKING I.T.E. Power Supply Model: PS07-050150-EXU Input: 100-240V ~ 50/60Hz 0.3A Output: 5V == 1.5A(**LPS**) ⊖ ⊕ ⊕ CONFORMS TO UL STD.60950-1 CERTIFIED TO CSA STD. C22.2 NO 60950-1 Wah Hing Transformer Mfy. Ltd. WW=Week,YY=Year 12-13/F.,Blk A,Chung Mei Certre,15-17 Hing Yip St,Kwun Tong,HK Made In China **CAUTION:** RISE OF ELECTRICAL SHOCK DRY LOCATION USE ONLY FIT MAINS INPUT PLUG **BEFORE USE** Notice: 1. Unit mm 2. Scale

None

Using laser printing. 3. Material

4. The otherwise tolerance is follows: ± 0.2

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