




WH 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		
Customer P/N:	Customer Rev.: A	
Customer Model No.:	Customer ID:	
Wah Hing Model No.: S01970A	Wah Hing Rev.: 00	
Article: ADAPTER		
Standard: SAA/ICE60950-1	Safety No.:	
Catalog No.: PS07-050150-EFU	Date: 24-Sep-21	
Remarks: Please note items listed in page.2 that requires your consent for deviation.		
 Eng. Dept. 温祯林	 Eng. Dept. 杜光勇	 Eng. Dept. 卢闯
Designed/Maker	Checked by	Approved by

Please evaluate the samples, sign this approval sheet and return to WAH HING

Approved
 Rejected
 Conditional Approved

Comments:

Customer Approved by : _____

Signature & Date

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PRODUCT SPECIFICATION

Deviation and History

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

Item	Customer specification	Suggestion specification

Remarks:

	00	First issue.	Wen Zhenlin	24-Sep-21

History

Customer P/N:	Wah Hing Model No.: S01970A
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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 10 W Max.
The unit meet ROHS directive of the European Union.
The unit meet Efficiency level VI.

2.1 Input Voltage	:	AC100-240 V	Performance guarantee
Input Voltage Range	:	AC90-264 V	
2.2 Input Current	:	0.30Arms max.	@ AC100-240V full load
2.3 Operating Frequency	:	50/60 Hz	
Operating Frequency Range	:	47-63 Hz	
2.4 Standby Power	:	0.1W max	@ AC115-230V 60/50Hz
2.5 Input Fuse	:	2.2Ohm 1W fusible resistor	
2.6 Input Connector	:	SAA Plug	

3.0 OUTPUT CHARACTERISTICS

3.1 Output Voltage	:	DC 5V ± 0.25V @ AC100-240 V at 0A	
	:	DC 5V ± 0.25V @ AC100-240 V at 1.5A	
3.2 Output Current			
Rated loading current	:	1.5 A	
Minimum loading current	:	0 A	
3.3 Ripple and Noise	:	150 mV _{p-p} max.	@ AC100-240 V 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 Efficiency	:	76.65% min.	@ AC115 60Hz full load
	:	76.65% min.	@ AC230 50Hz full load
After temperature is saturated, measurement be made at DC cord output terminals.			
3.5 Line Regulation	:	5%	@ AC100-240 V 50/60Hz
3.6 Load Regulation	:	10%	@ AC100-240 V 50/60Hz
3.7 Turn on delay time	:	<3S	@ AC100-240 V rated load

4.0 PROTECTION FUNCTION

4.1 Over-current Protection	:	1.51~3A	@ AC100-240 V
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Over-current conditions shall cause output voltage drop close to 0 V, automatic resume function after reset the DC output lever current protection condition.

4.2 Over-voltage Protection	:	N/A
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4.3 Short circuit protection

When the output pin is pulse shorted, it should permit the durative current flow. Removal of fault condition shall permit automatic recovery of the output voltage and there is no damage.

5.0 ENVIRONMENTAL CONDITION

5.1 Non-operation

5.1.1 Ambient temperature : -20-80 °C

5.1.2 Relative humidity : 10-95 %

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 °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 : CB/CE/SAA/ETL/IEC60950-1

6.2 EMC Standard : EN55022 class B, FCC Part 15 Class B

6.3 Dielectric strength

Primary to secondary : 3750 Vac 60S Cut off current 5mA

6.4 Insulation resistance

primary to secondary : 100MΩ min. Apply DC 500V
At normal temperature and relative humidity

6.5 Leakage current

The leakage current of the adapter mustn't be more than 0.25mA.

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7.0 RELIABILITY AND QUALITY CONTROL

7.1 Burn-in

7.1.1 Burn-in Ambient temperature : 40 °C

7.1.2 Burn-in Time : 2-4 hr.

AC source 220Vac/50Hz, 80-100% loading.

7.2 Drop Test

Dropped the specimen from 1m height, 1 times each for a different sides onto a concrete or equivalent non-resilient floor covered with hardwood which thickness is 50mm±5mm and density is 600kg/m³ at least. There shall be no problem on appearance, structure, performance and safety.

8.0 MECHANICAL

8.1 Case Material : Plastic(UL94 V-0)

8.2 Case Dimension : L60.2*W39*H34.9mm

8.3 Case Colour : Black

8.4 Weight(Adaptor unit) : 47g(about)

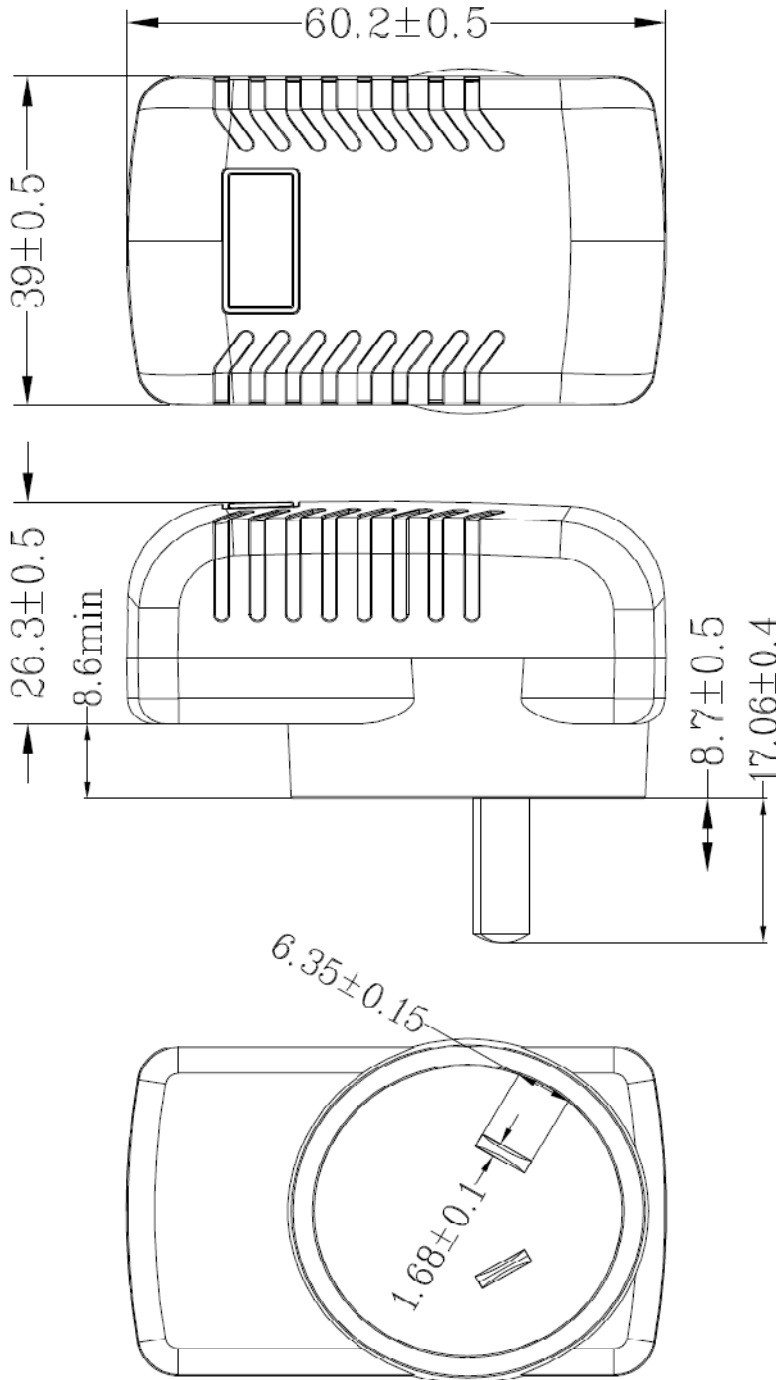
8.5 Input plug type : SAA Plug

8.6 Output plug type : USB-A

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8.7 Dimensions And Diagram



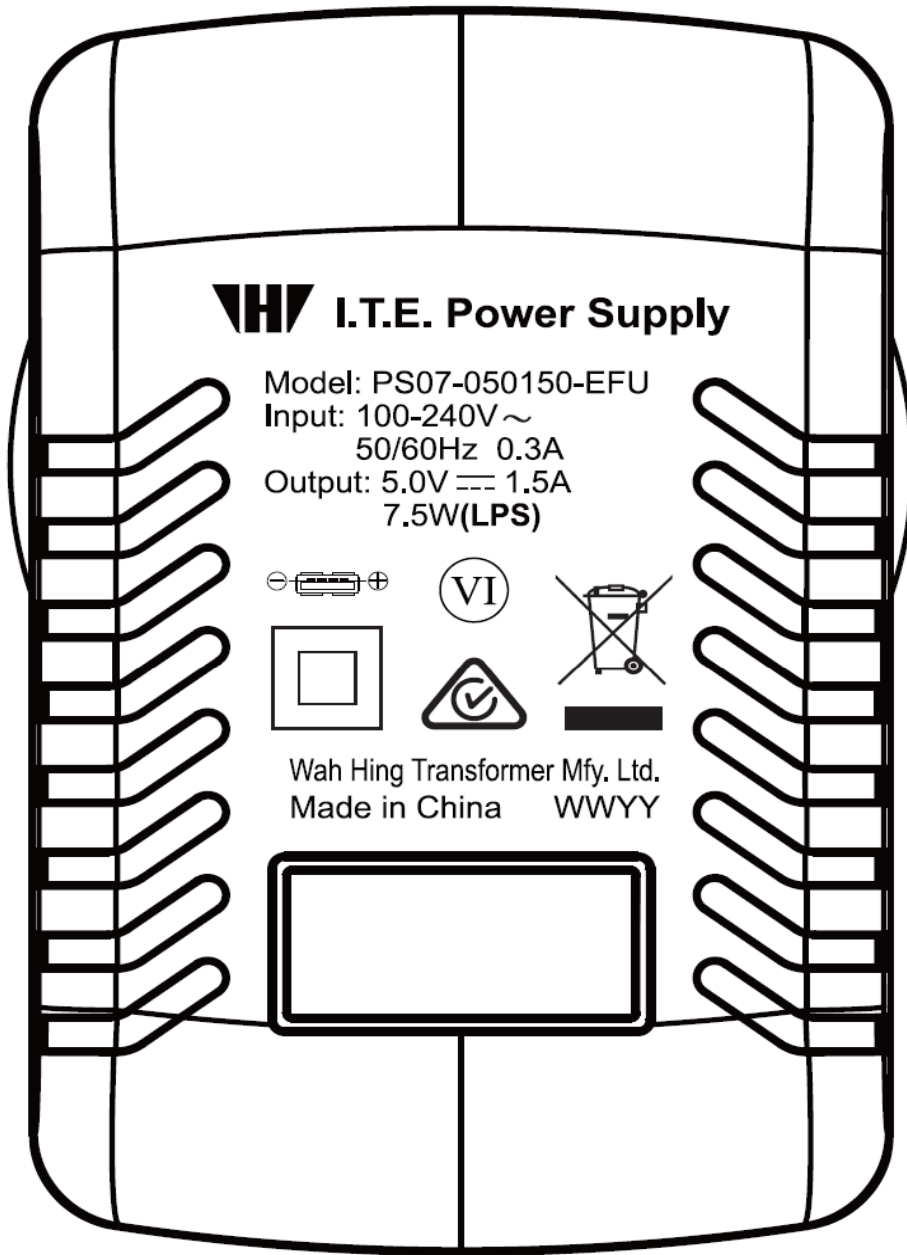
Notice:

1. Unit: mm
2. Tolerance: $\pm 1 \text{ mm}$

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9.0 PROPOSED ARTWORK MARKING



Notice:

1. Unit : mm
2. Method : Using laser printing
3. The otherwise tolerance is follows: ± 0.2

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10.0 PACKING DIAGRAM

TBD

Remarks:

1. Storage condition:

Temperature: -20°C ~ +70°C

Relative humidity: 10% ~ 90%

2. Storage time: 6 months

3. Antistatic no requirement

4. Please advise if any comment on packing information, Otherwise, this information will apply in production.

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