




**Wah Hing Transformer MFY. LTD.**

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## SPECIFICATION FOR APPROVAL

<b>Customer:</b> Ivent Solutions Limited		
<b>Customer P/N:</b>	<b>Customer Rev.:</b>	
<b>Customer Model No.:</b>	<b>Customer ID:</b> I051	
<b>Wah Hing Model No.:</b> T08667B	<b>Wah Hing Rev.:</b> 00	
<b>Article:</b> AC POWER TRANSFORMER		
<b>Standard:</b> UL5085-3(meet)	<b>Safety No.:</b>	
<b>Catalog No.:</b>	<b>Date:</b> 2014-02-13	
<b>Remarks:</b> <i>Please note items listed in page.2 that requires your consent for deviation.</i>		
 Eng. Dept. 邓向阳	 Eng. Dept. 刘洪福	 Eng. Dept. 李建华
<b>Designed/Maker</b>	<b>Checked by</b>	<b>Approved by</b>

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

- Approved
- Rejected
- Conditional Approved

Comments:

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*Customer Approved by :* \_\_\_\_\_

Signature & Date

**VH** 華興變壓器製造廠有限公司  
**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	Suggestion specification
1		
2		
3		
4		

Remarks:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

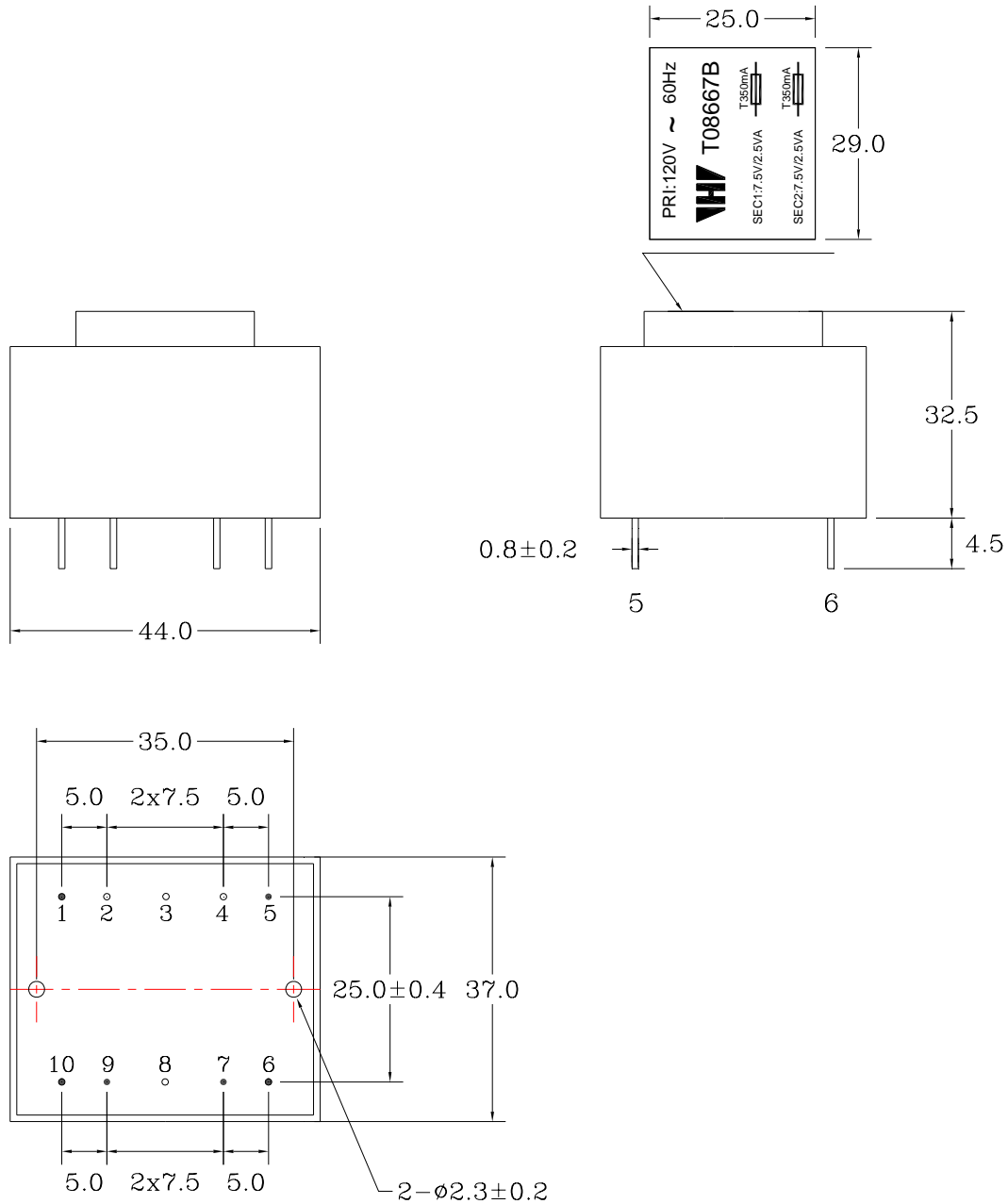
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△2				
△1				
--	00	Initial Issue	Deng	2014-02-13
Item	Rev	Description	Sign	Date

History

Customer P/N: \_\_\_\_\_ Wah Hing Model No.: T08667B

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**PRODUCT SPECIFICATION**

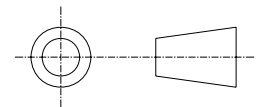
**Dimensions and Diagram**



**Notes:**

1. Unit: mm
2. Marking: pad-print on top of case, letter in white, background in black
3. Pins exist at position: 1, 5, 6, 7, 9, 10.
4. The other tolerance is follows:
 

x.	±1.5
.x	±1.0
.xx	±0.50



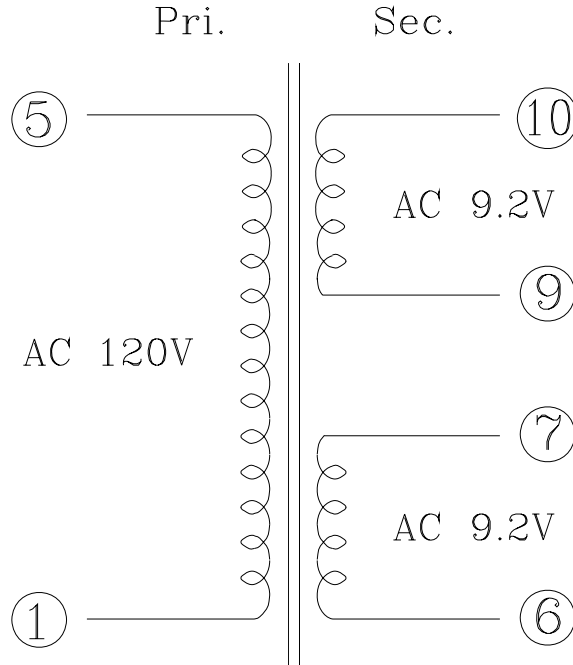
Customer P/N:

Wah Hing Model No.: T08667B

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**PRODUCT SPECIFICATION**

**Electrical Characteristics**

**Circuit diagram:**



**Remarks:**

Non-short circuit proof type transformer. 350mA current Fuse must be connected in series to the secondary on external

**Tabel-1: Secondary loaded voltage:**

Primary input			S1(10-9) with 350 current fuse	S2(7-6) with 350 current fuse	S3	S4	S5
	Rated load	Load	333mA ac	333mA ac			
120Vac 60 Hz	1	Standard	7.5Vac	7.5Vac			
		No Load	0 A	0 A			
132Vac 60 Hz	2	Standard	9.2Vac	9.2Vac			
		Load					
108Vac 60 Hz	3	Standard					
		Load					
	4	Standard					
		Load					

Tabel-1 notes:

1.If not specified, the secondary voltage tolerance is  $\pm 5\%$ .

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**Electrical Characteristics**

Standard atmospheric conditions:

Unless otherwise specified, the standard range of atmospheric conditions for marking measurements and tests are as follows:

Ambient temperature : 15°C to 35°C

Relative humidity : 25% to 85%

If there is doubt about the results, measurement shall be made within the following limits:

Ambient temperature : 20°C ± 1°C

Relative humidity : 63% to 67%

Operating temperature range:

-10°C to +40°C

1	Output voltage and current	<input checked="" type="checkbox"/> Measured in a.c. circuit <input type="checkbox"/> D.C. circuit including rectifying circuit	Refer to Page 4
2	Rated primary voltage	<input type="checkbox"/> 50Hz <input checked="" type="checkbox"/> 60Hz <input type="checkbox"/> Both 50Hz and 60Hz	<u>120V</u>
3	No load current	Input <u>120Vac</u> , <u>60Hz</u>	<u>50mA</u> or less
4	Stand-by consumption	Input <u>120Vac</u> , <u>60Hz</u>	<u>---</u> W or less
5	Secondary voltage		Refer to Page 4
6	Insulation resistance	Apply a voltage of 500V d.c. for 1min.: Between the primary and core Between the primary and secondary	<u>100M</u> Ω or more
7	Dielectric strength	Between primary and secondary: <u>4.0KV</u> vac for 1min. 2mA	No damage such as Breakdown, etc.
8	Layer dielectric strength	Apply <u>(A)</u> V, 400Hz for 15s to the primary terminal of <u>(B)</u> V. (A) <u>240V</u> , (B) <u>120V</u>	No damage such as Breakdown, etc.
9	Primary direct Current resistance	Between terminals of <u>----</u> and <u>----</u>	<u>---</u> Ω
10	Secondary direct Current resistance	Between terminals of <u>----</u> and <u>----</u>	<u>---</u> Ω
11	Temperature rise	The voltage of <u>(A)</u> V shall be applied to the primary terminal of <u>(B)</u> V. Measurement shall be made after constant temperature are reached. (A) <u>120</u> V (B) <u>120V</u> Secondary load conditions: <input checked="" type="checkbox"/> All at the rated current <input type="checkbox"/> The input voltage is increased by 6% after the rated current is set. <input type="checkbox"/> The rated current is set, with the input voltage 10% high. <input checked="" type="checkbox"/> Other ( Ta=25°C )	Windings up to: <u>75</u> K (by the resistance method) Iron core up to: <u>----</u> K. (by the thermometer method)

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<b>Electrical Characteristics</b>				
12	Damp heat	<p>The power transformer shall be stored at an ambient temperature of 40°C±2°C with relative humidity of 90% to 95% for 48h. Then condensation shall be removed. After which measurement shall be made within 10 min.</p>	Insulation resistance	5M Ω or more
			Dielectric strength	Clause 7 shall be satisfied. Trip current 5mA
13	Dry heat	<p>The power transformer shall be stored at an ambient temperature of 100°C±3°C for 6h. After which measurement shall be made within 10 min.</p>	Insulation resistance	5M Ω or more
			Dielectric strength	Clause 7 shall be satisfied. Trip current 5mA
14	Abnormal temperature test	<input type="checkbox"/> 15-day test <input type="checkbox"/> Short-circuit and overload test with	Windings up to: --- °C	
15	Beat noise (Hum)		--- B or less	
16	Thermo-protector	Primary windings built in / thermal fuse.	--- °C	
17	Mass		186g (reference)	

**CONSTRUCTION DIAGRAM AND MATERIAL LIST**

**1. Internal construction**

- (1) Lead wire and winding shall be connected by twisting together.
- (2) Thickness and materials of insulation and also creepage, clearance and thickness of insulation, shall conform to applicable safety standard.

**2. Tensile strength of terminals (pins)**

A load of 20 N shall be applied in the axial direction. When it is retained for 10±1 seconds, there shall be no loosening or breakdown.

For one not exceeding 2 Kg, the static load same with the self weight shall be applied.

**3. Appearance**

There shall be no scratches, dents, or distinct blemishes on the body, pin.

**5. Fitting strength**

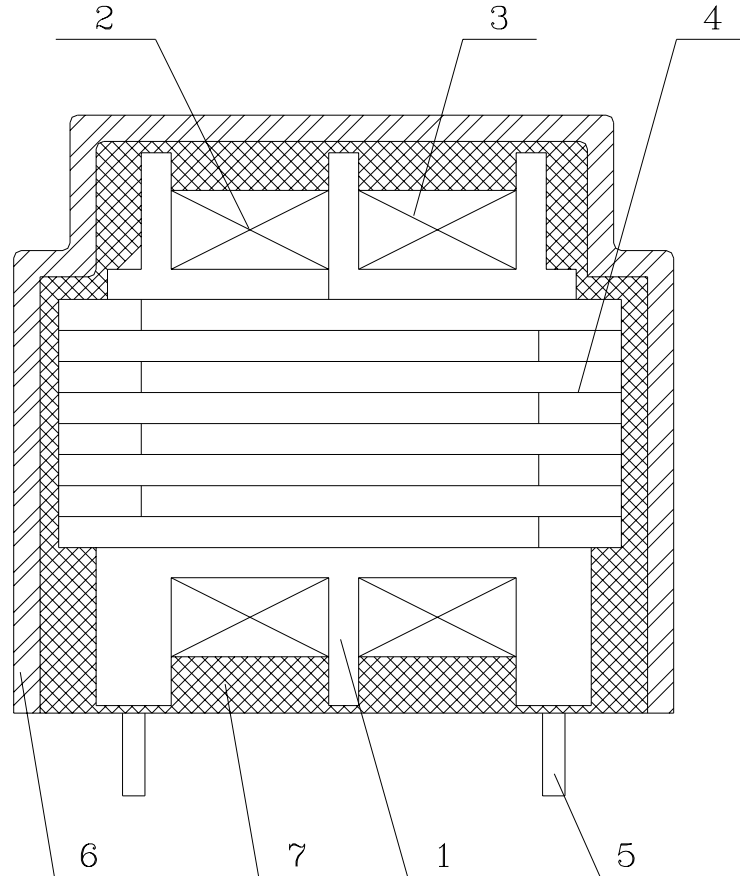
There shall be no damage such as deformation when a static load of 20 N is applied in all directions for 30 s.

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**Construction Diagram**



- |                      |                     |
|----------------------|---------------------|
| 1. BOBBIN            | 5. PIN              |
| 2. PRIMARY WINDING   | 6. POTTING BOX      |
| 3. SECONDARY WINDING | 7. POTTING MATERIAL |
| 4. LAMINATION CORE   |                     |

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**Materials List**

No.	Description	Material ,Thickness/Turns	Manufacture	Safety No.
1	Bobbin	PETP, FR530 UL94V-0	E.I. Dupont	E41938
		PET-T102G30, 0.71mm min. UL94V0	Shinkong	E107536
2	Primary Winding	Polyurethane enameled copper wire MW28C or MW75C	Ta win	E152187
			Pacific-thai	E142108
3	Secondary Winding	Polyurethane enameled copper wire MW28C or MW75C	Ta win	E152187
			Pacific-thai	E142108
4	Lamination Core	Silicon sheet steel, EI30, 0.5mm.thickness	Kawasaki	None
5	Pin	Copper alloy, 0.8mm diameter	WELL FORE	None
6	Potting Box	A216V30 , UL94HB	RHQDIA	E44716
7	Potting Material	PU390,UL94V-2	Wevo-chemie gmbh	E108835
<p>1. All materials meet ROHS requirement.</p> <p>2. Please advise if customer have any special requirements.  Otherwise, all materials may be substituted by other equivalent manufacturer.</p>				
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**ELECTRICAL TESTING DATA SHEET**

[MSF No: 1402005]

Condition: Input: 120 Vac; 60 Hz		Room Temperature: 25 °C										
DESCRIPTION	SPEC	Pin No.	1	2	3	4	5	6	7	8	9	10
Pri Exec Io(mA) (MAX)	50 mA Max.		25.1	24.4	25.6	25.3	24.1					
Pri DCR(Ω)			173.57	172.88	172.48	172.42	173.45					
No: Load less w			0.86	0.85	0.86	0.86	0.85					
SEC: Vo s1 <acc>	9.2Vac ±5%	10-9	P.31	P.31	P.30	P.31	P.31					
Vo s2 <acc>	9.2Vac ±5%	7-6	P.31	P.31	P.30	P.31	P.31					
Vs s1 330mV <acc>	7.5Vac ±5%	10-9	7.78	7.82	7.84	7.84	7.84					
s1 330mV <acc>	7.5Vac ±5%	7-6	7.78	7.82	7.84	7.84	7.84					
29pp			61.5	70.9								
Hi-Pot Test :												
Primary - Secondary & Core	2.5KV AC 2m/10 Min		✓	✓	✓	✓	✓					
Secondary - Core												
Insulation Resistance	≥100MΩ		✓	✓	✓	✓	✓					
Hi-Pot Test Equipment :	PM-106	<input type="checkbox"/> 1MWV58	<input checked="" type="checkbox"/> 1MWV66	<input type="checkbox"/> 1MWV66	<input type="checkbox"/> OK	<input type="checkbox"/> NG						
Customer: Ivent solutions Limited		Cust. P/N:										Chg No.: C-0
Wahhing Model No.: 708667B		Tested By:										Approved By:
												Date: 11-Feb-14