




Wah Hing Transformer MFY. LTD.

香港九龍官塘興業街15-17號中美中心A座12-13樓

12&13/F, Blk. A, Chung Mei Centre, 15-17 Hing Yip St., Kwun Tong, Kowloon, Hong Kong
Tel: 852-2341 2297 Fax: 852-2341 5941 E-mail: mkt@wahhing.com.hk

SPECIFICATION FOR APPROVAL

Customer: Ivent Solutions Limited		
Customer P/N:	Customer Rev.:	
Customer Model No.:	Customer ID:	W050
Wah Hing Model No.: S01724B	Wah Hing Rev.:	04
Article: SWITCHING POWER SUPPLY(AC-DC)		
Standard: Meet EN/UL60950, EN61558-2-16		Safety No.:
Catalog No.: S05P7-0600830	Date:	6-Oct-15
<i>Remarks:</i> Please note items listed in page.2 that requires your consent for deviation.		
 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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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:

	04	Page9 nameplate change from laser printing to pad printing.	Paul Lai	6-Oct-15
	03	Page9 Revise nameplate: 1) Letter height change from 1.3mm to 1.7mm. 2) Operating frequency change from 50-60Hz to 50/60Hz.	Paul Lai	2-Sep-15
	02	Change Label.	Paul Lai	17-Jul-15
	01	Page8: 1) Height Change from 20.5mm to 21.5Max mm. 2) Pin Change from 0.64x0.64mm to Φ0.8mm. 3) Marking Change from Pad Printing to Laser Printing. 4) Ta Change from 50°C to 70°C Rating. 5) add Table of Y1 Capacitors.	Paul Lai	23-Jun-15
	00	First issue.	Paul Lai	9-Dec-13
Item	Rev	Description	Sign	Date

History

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1.0 INTRODUCTION

The document specifies the AC/DC switching power supply with one output, the total output power is 5.0W Max.

The unit meet RoHS directive of the European Union.

2.0 INPUT CHARACTERISTICS

- 2.1 Input Voltage : AC100-240V Performance guarantee
Input Voltage Range : AC90-264V
- 2.2 Input Current : 0.15Arms max. @ AC100-240V rated voltage
- 2.3 Operating Frequency : 50/60 Hz
Operating Frequency Range : 47-63Hz Ambient temp. 25°C
- 2.4 Input Fuse Resistance : 10R 1W fusible resistor
- 2.5 Standby power : ≤0.15W @ AC100-240V rated voltage

3.0 OUTPUT CHARACTERISTICS

- 3.1 Output Voltage : DC6.0V ± 10% @ AC100-240V at 0A
: DC6.0V ± 5% @ AC100-240V at 830mA
- 3.2 Output Current
Rated loading current : 830mA
Minimum loading current : 0A
- 3.3 Ripple and Noise : 400 mV_{p-p} max. at 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.

- 3.4 Energy Efficiency : 72.25% min. (Energy Star V2.0)
72.31% min. (ErP Tier 2)

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3.5 Line Regulation : 5 % @ AC100-240V rated load

3.6 Load Regulation : 10 % @ AC100-240V rated voltage

4.0 PROTECTION FUNCTION

4.1 Over-current Protection : 830~1245mA @ AC100-240V rated voltage

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

When the output voltage is over than above value (typical), it should be protected and causing output voltage drop. operating with re-input of AC power supply after over voltage protection circuit activated.

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 : -40/+ 85°C

5.1.2 Relative humidity : 5-95 %

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.

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5.2 Operating

5.2.1 Ambient temperature : 0-70 °C

5.2.2 Relative humidity : 10-90 %

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 : EN61558-2-16

6.2 EMC Standard : EN55014, EN55022, EN61000

6.3 Dielectric strength

Primary to secondary : AC3750V 60S Cut off current 5mA

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 hr.

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

7.2 Drop Test

Dropped the specimen from 3 ft.(914mm) height, 1 times each for a different sides onto a concrete floor at least 64 mm thick and covered with a 3.2 mm thick vinyl tile. There shall be no problem on appearance, structure, performance and safety.

7.3 MTBF(Mean Time Between Failure) (MIL-HDBK-217F)

MTBF 200000 hr @230V Ambient temp 40'C

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8.0 MECHANICAL

8.1 Case

8.1.1 Case Material : Plastic

8.1.2 Case Dimension : L32.6*W27.6*H21.5 mm

8.1.3 Case Colour : Black

8.2 Weight(Adaptor unit) : 30g (approximate)

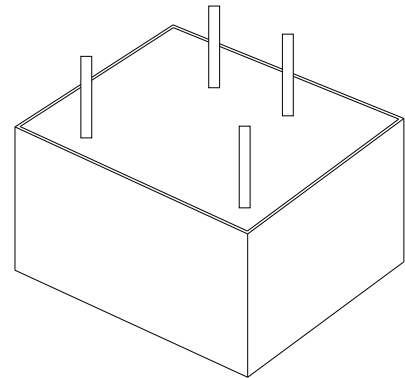
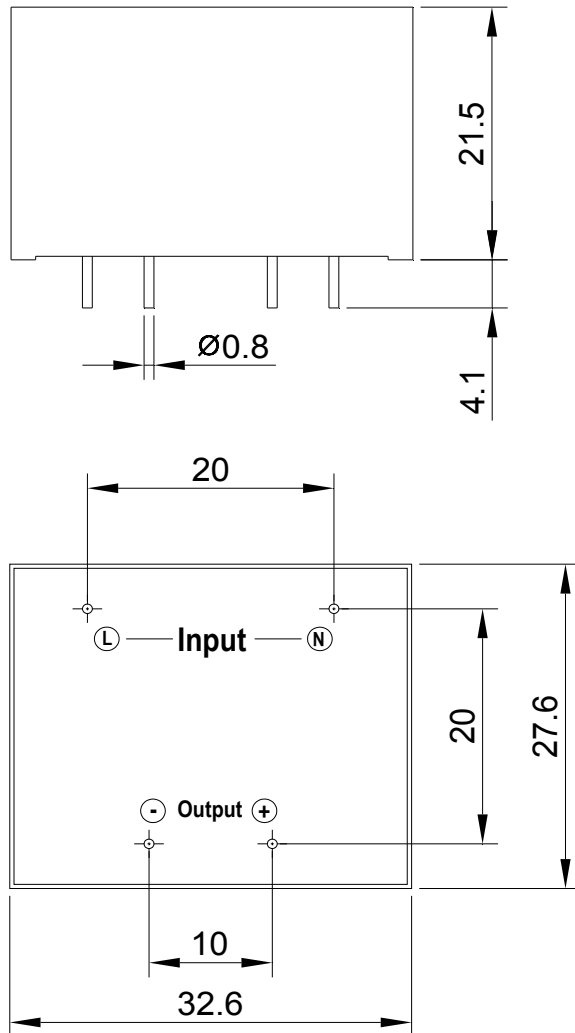
8.3 Input plug type : Pin Diameter 0.8mm

8.4 Output plug type : Pin Diameter 0.8mm

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8.5 Dimensions And Diagram



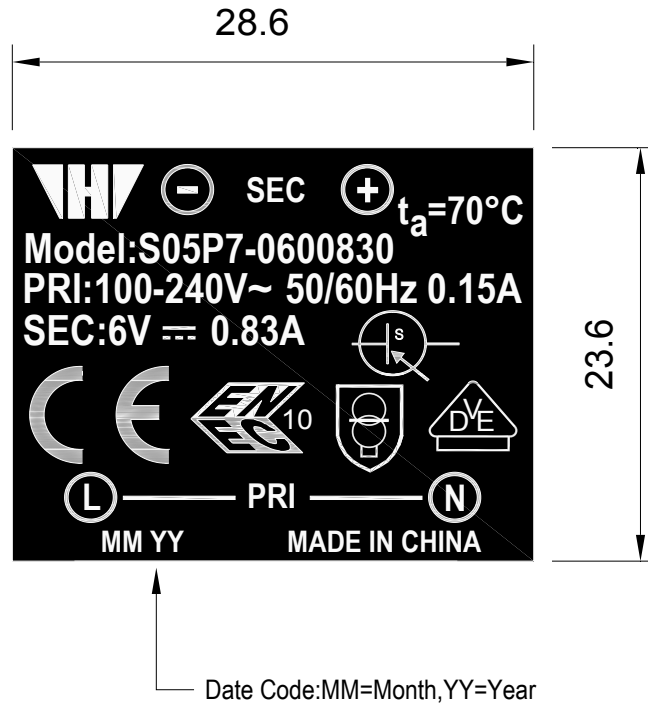
Notice:

1: Unit: mm

2. The otherwise tolerance is follows: ± 1.0

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9.0 PROPOSED ARTWORK MARKING



Notice:

1. Unit : mm
2. Method : Pad Printing on Top of Enclosure
3. Colour : Letter in white, background in black
4. The otherwise tolerance is follows: ± 0.5

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10.0 APPENDIX

10.1 Table of Y1 Capacitors

Object/ part No.	Technical data	Type/ model	Manufacturer/trademark	Evidence of acceptance
Y-capacitor (CY1)	AC250V/AC400V; Y1; 470pF; 125°C	CD	Shantou High-New Technology	VDE 40025754
Y-capacitor (CY1) Alternative	AC400V; Y1; 470pF; 125°C	CY	Hsuan Tai Electronic Co. Ltd.	VDE 40008912
Y-capacitor (CY1) Alternative	AC250V/AC500V; Y1; 470pF; 125°C	SB	Success Electronics Co., Ltd.	VDE 40020001
Y-capacitor (CY1) Alternative	AC250V/AC500V; Y1; 470pF; 125°C	SE	Success Electronics Co., Ltd.	VDE 40020002
Y-capacitor (CY1) Alternative	AC250V; Y1; 470pF; 125°C	CT7	Haohua Electronic Co	VDE 40003902

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