

SPECIFICATION FOR APPROVAL

CUSTOMER: JAMES

PART NO: 2234741

MODEL NO: DBU060050

DESIGNED NO: D5840 RoHS

REVISION: 1-2

CATEGORY: AC ADAPTOR

DATE SUBMITTED: 2017.06.16

SAMPLE SUBMITTED SAMPLE 0 SPECIFICATION 1	CONCLUSION		APPROVED
			REJECTED
			CONDITION APP'D

CUSTOMER'S SIGNATURE:

浩源實業有限公司
HAWK'S AIM INDUSTRIAL CO., LTD.
高雄市前鎮區新衙路 286-8 號 5F-2
5F-2, No.286-8, Shin-Ya Road, Chien-Chen
District, Kaohsiung, Taiwan 806
Tel:07-8418448 Fax:07-8419997

MODEL NO: DBU060050
CUSTOMER P/N: 2234741
DESCRIPTION: AC ADAPTOR
ISSUED DATE: 2017.06.16
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REV	DESCRIPTION	DATE
1-0	INITIAL RELEASED	2000.11.08
1-1	CHANGE PRODUCT NO	2013.01.30
1-2	CHANGE HAWK'S AIM	2017.06.16

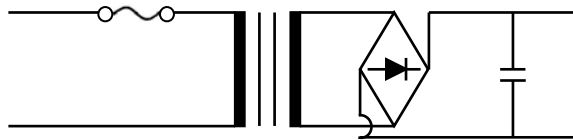
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1.0 ELECTRICAL CHARACTERISTIC:

- 1.1 INPUT RATED VOLTAGE AND LINE FREQUENCY: 120 VAC 60 Hz.
- 1.2 INPUT EXCITING CURRENT (Io): 50 mA RMS MAX. AT INPUT 120 VAC 60 Hz.
- 1.3 INPUT LOAD CURRENT (IP): 90 mA RMS MAX. INPUT 120 VAC 60 Hz OUTPUT FULL LOAD.
- 1.4 EMPTY LOSS: X W MAX, AT INPUT X VAC X Hz.
- 1.5 ELECTRICAL CIRCUIT:



1.6 OUTPUT RATED VOLTAGE AND CURRENT:

TEST POINT	FULL LOAD RATED VOLTAGE	RATED CURRENT	RIPPLE VOLTAGE Vp-p	NO LOAD VOLTAGE
	6VDC $\pm$ 5%	500mA	mV MAX.	10.5VDC $\pm$ 5%

- 1.7 D.C.RESISTANCE:PRIMARY 250 Ω $\pm$ 5%, MEASURED AT 25 $^{\circ}$ C AMBIENT TEMPERATURE.
- 1.8 HI-POT TEST: 1240 VAC 50/60HZ FOR 60 SECONDS BETWEEN INPUT TO OUTPUT PLUG AND CASE NORMAL PERFORMANCE. (LEAKAGE CURRENT 1mA)
- 1.9 INSULATION RESISTANCE TEST: 500 VDC SUPPLIED, 100 M Ω MIN, BETWEEN INPUT TO OUTPUT PLUG AND CASE.
- 1.10 TEMPERATURE RISE TEST: INPUT 120 VAC 60 Hz, OUTPUT LOAD 0.5 A FOR INPUT COIL 75 $^{\circ}$ C MAX (BY USE RESISTANCE METHOD) ON CASE SURFACE X $^{\circ}$ C MAX (BY USE THERMOMETER METHOD) AT 25 $^{\circ}$ C AMBIENT TEMPERATURE.
- 1.11 HUMIDITY TEST: IN AN AMBIENT TEMPERATURE 40 $\pm$ 2 $^{\circ}$ C AND 90-95 % R.H FOR 4 HOURS, AFTER 10 MINUTES OUT OF THE OVEN, THE UNIT SHOULD MEET ITEM 1.8 REQUIREMENTS, AND INSULATION RESISTANCE SHALL BE 10M OHMS MIN.

2.0 MECHANICAL PERFORMANCE:

- 2.1 STRAIN RELIEF TEST: AT NORMAL POSITION, 20 LBS TO OUTPUT CORD FOR 60 SECONDS EACH, THERE SHALL BE NO BREAKAGE DISPLACEMENT.
- 2.2 DROP TEST: DROPPED FREELY FROM 3 FEET HEIGHT ONTO A CONCRETE FLOOR COVERED WITH 1/8 INCH VINYL TILE 3 TIMES FROM 3 DIFFERENT SURFACE THE UNIT SHOULD MEET THE ITEM 1.8 、 1.9.

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- 2.3 BENDING TEST: THE PLUG AND S/R SHOULD WITHSTAND WEIGHT OF 200 GRAM, IT SWINGING FROM LEFT TO RIGHT AT AN ANGLE OF 120 DEGREE FOR 300 CYCLES, AND 15-20 CYCLES PER MINUTE, THE CORD SHALL BE CONDUCTIBLE.

3.0 SAFETY STANDARD:

☒UL/CUL ☐GS ☐CE ☐PSE ☐BSMI

4.0 APPEARANCE REQUIREMENTS:

- 4.1 APPEARANCE: DAMAGE AND RUSTING ARE NOT PERMITTED.

5.0 ENVIRONMENTAL CONDITION:

- 5.1 OPERATING TEMPERATURE RANGE: -10°C ----- +40°C
5.2 STORAGE TEMPERATURE RANGE: -20°C ----- +55°C
5.3 OPERATING HUMIDITY RANGE: 30-85% R.H.

6.0 INSPECTION ON LINE:

- 6.1 THE TEST ITEMS FOR EACH PRODUCE.

◇ PRIMARY EXCITING CURRENT
◇ CORE LOSS
◇ OUTPUT VOLTAGE
◇ INPUT CURRENT AND POWER AT RATED LOAD
◇ FOREIGN MASS BY SHOCK
◇ POLARITY OF OUTPUT PLUG
◇ HI-POT TEST
◇ APPEARANCE

- 6.2 THE TEST ITEM FOR PART OF PRODUCTS.

◇ HUM OPERATING AT RATED LOAD
◇ D.C.RESISTANCE
◇ INSULATION TEST

- 7.0 NET WEIGHT: 163.8 g

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8.0 SAMPLE TEST DATA:

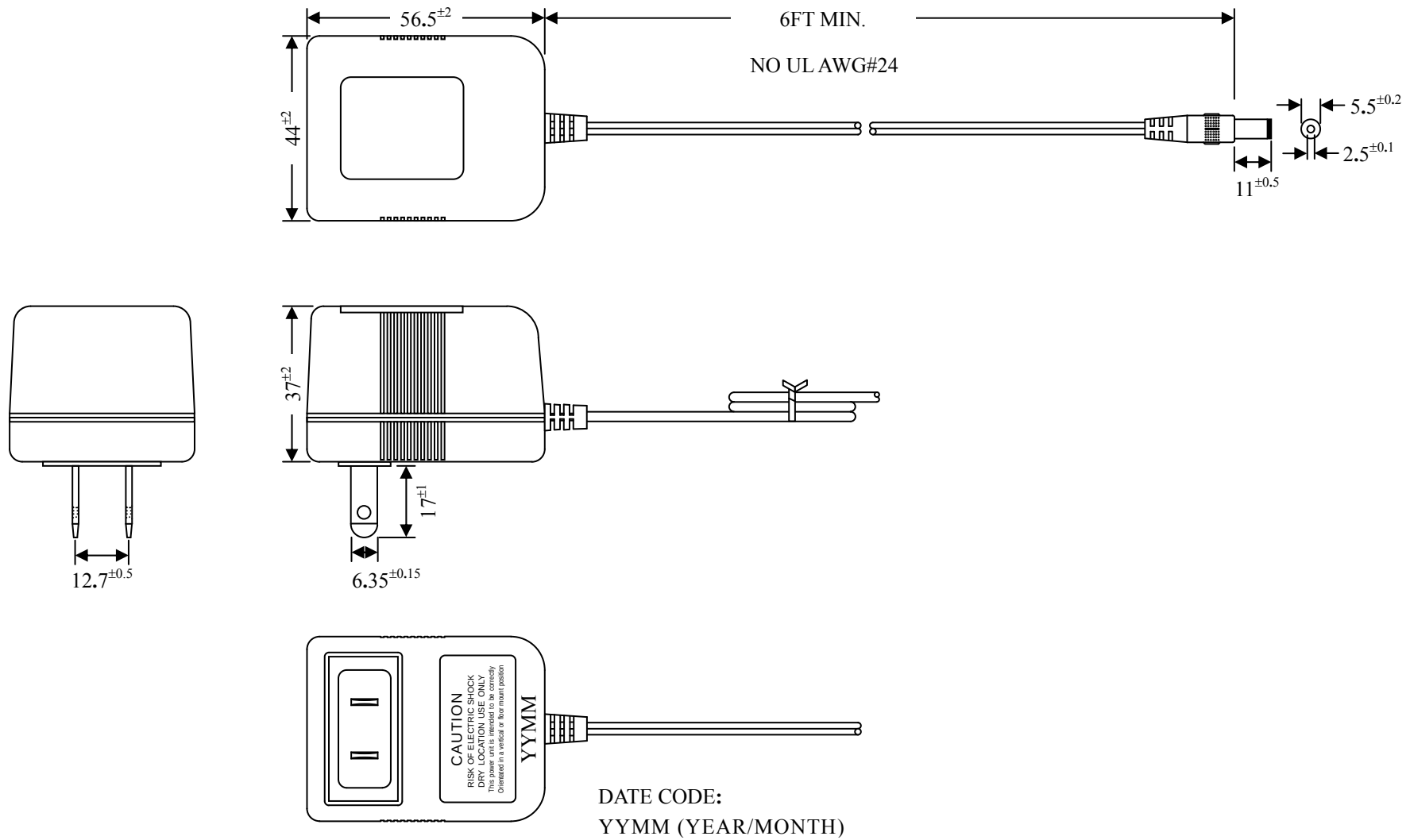
ITEM		SPEC.	1	2	3	4	5
PRIMARY EXCITING CURRENT I/P: 120VAC 60Hz		50mA MAX.	30				
PRIMARY LOAD CURRENT I/P: 120VAC 60Hz		90mA MAX.	59				
SECONDARY VOLTAGE NO LOAD		10.5VDC±5%	10.46				
SECONDARY VOLTAGE LOAD DC 500mA		6VDC±5%	6.13				
HI-POT TEST	INPUT TO OUTPUT 60 SECONDC	AC 1240V 1mA	OK				

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9.0 APPEARANCE DIMENSIONS: (UNIT:mm)

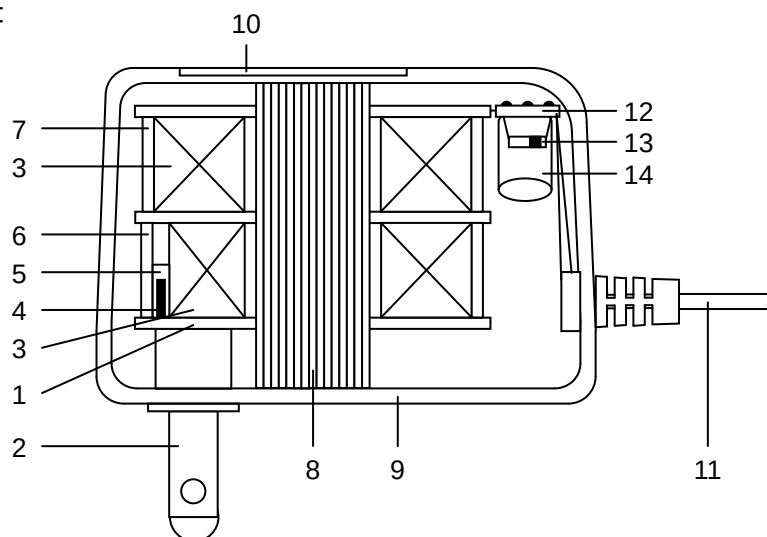


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10.0 MATERIAL LIST:



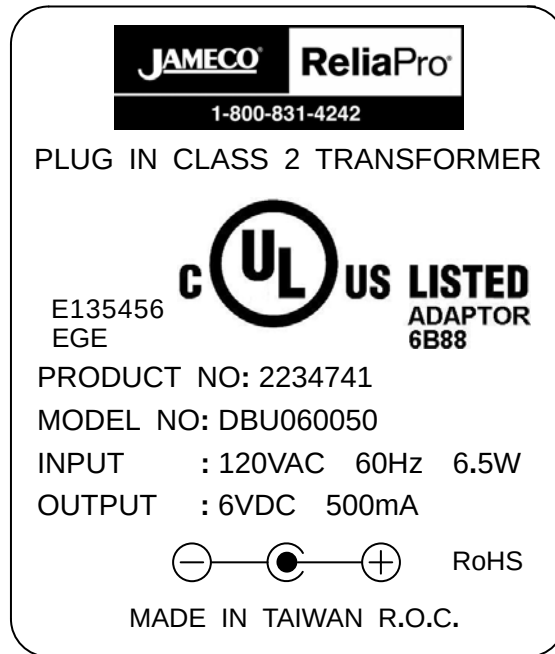
NO.	DESCRIPTION	MATERIAL	SPEC. & Q'TY	MANUFACTURE
1	BOBBIN	70G33L(E41938)		EAST TUNG JUNG PLASTIC HARDWARE CO., LTD. HWA YUE LTD.
2	PRIMARY BLADES	NICKEL PLATING		SPREAD PROFIT ELECTRONIC (DONG CO., LTD.
3	ENAMELED WIRE	POLYURETHANE ENAMELED COPPER WIRE(E85640(S))		FENG CHING METAL CORP. TAI-L ELECTRIC WIRE & CABLE CO., LTD.
4	THERMAL CUTOFF	L20 (E142267) A2-F(E140847)	115°C 115°C	JOINT FORCE METAL RESEARCH & CO. AUPO ELECTRONICS LTD.
5	INSULATION BETWEEN PRIMARY WINDING & THERMAL CUTOFF	ACETATE CLOTH TAPE	0.34mm(1P)	QUN YI TAPE (DONGGUAN) CO., LTD. CHYUN YIH TAPE CO., LTD.
6	PRIMARY OUTER WRAP	POLYESTER FILM TAPE (E81174(S))	0.05mm(4T)	QUN YI TAPE (DONGGUAN) CO., LTD. CHYUN YIH TAPE CO., LTD.
7	SECONDARY OUTER WRAP	POLYESTER FILM TAPE (E81174(S))	0.025mm(2T)	QUN YI TAPE (DONGGUAN) CO., LTD. CHYUN YIH TAPE CO., LTD.
8	CORE	SILICON STEEL	0.5mm	SHENZHEN CHUNYUAN STEEL INDUSTIAL CO., LTD.
9	ENCLOSURE	NORYL SE100X (E161723)		SABIC INNOVATIVE PLASTICS CHINA CO., LTD.
10	NAMEPLATE	PLASTIC FILM	0.2mm	GUANG MING YOU TONG PRINTING FACTORY
11	OUTPUT CORD	FLEXIBLE CORD	AWG#24	HUAN WEI ENTERPRISE CO., LTD. MING SHENG ENTERPRISE CO., LTD.
12	RECTIFIER BOARD	P.C.B.(E105119)	94V-0	CHIH HSIEN ENTERPRISE CO., LTD.
13	Diodes	1N4001-----5		Master Instrument Corporation Shanghai Ltd.
14	CAPACITOR	1000uf/16V		Fuh Yin Electronics Co., Ltd.

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PRE.BY _____

11.0 NAMEPLATE DRAWING: (UNIT:mm)



- 1.MATERIAL:Plastic Film
- 2.THICKMESS:0.2
- 3.PRINTING:WORD:BLACK / BACKGROUND: SILVER

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CHK.BY _____

PRE.BY _____