

SPECIFICATION FOR APPROVAL

CUSTOMER: JAMES
PART NO: 121216
MODEL NO: ADU180100
DESIGNED NO: Z8441 RoHS
REVISION: 1-3
CATEGORY: AC ADAPTOR
DATE SUBMITTED: 2015.09.23

SAMPLE/SPECIFICATION SUBMITTED		APPROVED
SAMPLE <u>0</u>	CONCLUSION	REJECTED
SPECIFICATION <u>1</u>		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: ADU180100
CUSTOMER P/N: 121216
DESCRIPTION: AC ADAPTOR
ISSUED DATE: 2015.09.23
REVISION: 1-3

TABLE OF CONTENTS

- 1.0 ELECTRICAL CHARACTERISTIC
- 2.0 MECHANICAL PERFORMANCE
- 3.0 SAFETY STANDARD
- 4.0 APPEARANCE REQUIREMENTS
- 5.0 ENVIRONMENTAL CONDITION
- 6.0 INSPECTION ON LINE
- 7.0 NET WEIGHT
- 8.0 SAMPLE TEST DATA
- 9.0 APPEARANCE DIMENSION
- 10.0 MATERIAL LIST
- 11.0 NAMEPLATE DRAWING

REV	DESCRIPTION	DATE
1-0	INITIAL RELEASED	2003.03.31
1-1	CHANGE LOGO	2005.12.12
1-2	RoHS	2012.09.12
1-3	CHANGE HAWK'S AIM	2015.09.23

APP.BY _____

CHK.BY _____

PRE.BY _____

1.0 ELECTRICAL CHARACTERISTIC:

- 1.1 INPUT RATED VOLTAGE AND LINE FREQUENCY: 120 VAC 60 Hz.
- 1.2 INPUT EXCITING CURRENT (Io): 90 mA RMS MAX. AT INPUT 120 VAC 60 Hz.
- 1.3 INPUT LOAD CURRENT (IP): 250 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
	18VAC±5%	1000mA	mV MAX.	20.7VAC±5%

- 1.7 D.C.RESISTANCE:PRIMARY X Ω±5%, MEASURED AT 25°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 MΩ MIN, BETWEEN INPUT TO OUTPUT PLUG AND CASE.
- 1.10 TEMPERATURE RISE TEST: INPUT 120 VAC 60 Hz, OUTPUT LOAD 1.0 A FOR INPUT COIL 75 °C MAX (BY USE RESISTANCE METHOD) ON CASE SURFACE X °C MAX (BY USE THERMOMETER METHOD) AT 25°C AMBIENT TEMPERATURE.
- 1.11 HUMIDITY TEST: IN AN AMBIENT TEMPERATURE 40±2 °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.

APP.BY _____

CHK.BY _____

PRE.BY _____

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

◇ APPERANCE

6.2 THE TEST ITEM FOR PART OF PRODUCTS.

◇ HUM OPERATING AT RATED LOAD

◇ D.C.RESISTANCE

◇ INSULATION TEST

7.0 NET WEIGHT: 463.3 g

APP.BY _____

CHK.BY _____

PRE.BY _____

8.0 SAMPLE TEST DATA:

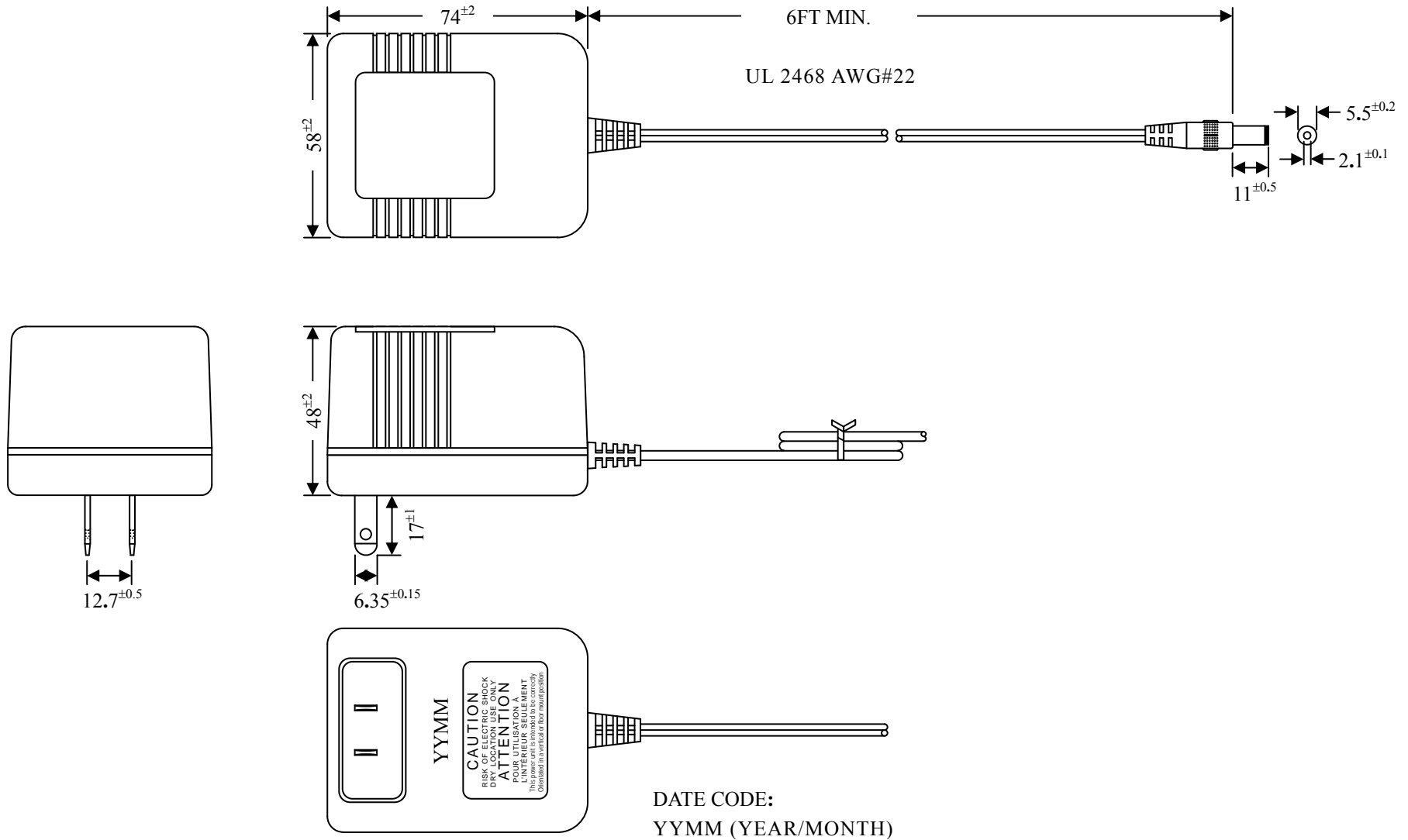
ITEM		SPEC.	1	2	3	4	5
PRIMARY EXCITING CURRENT I/P: 120VAC 60Hz		90mA MAX.	38				
PRIMARY LOAD CURRENT I/P: 120VAC 60Hz		250mA MAX.	195				
SECONDARY VOLTAGE NO LOAD		20.7VAC±5%	20.71				
SECONDARY VOLTAGE LOAD AC 1000mA		18.0VAC±5%	18.26				
HI-POT TEST	INPUT TO OUTPUT 60 SECONDC	AC 1240V 1mA	OK				

APP.BY _____

CHK.BY _____

PRE.BY _____

9.0 APPEARANCE DIMENSIONS: (UNIT:mm)

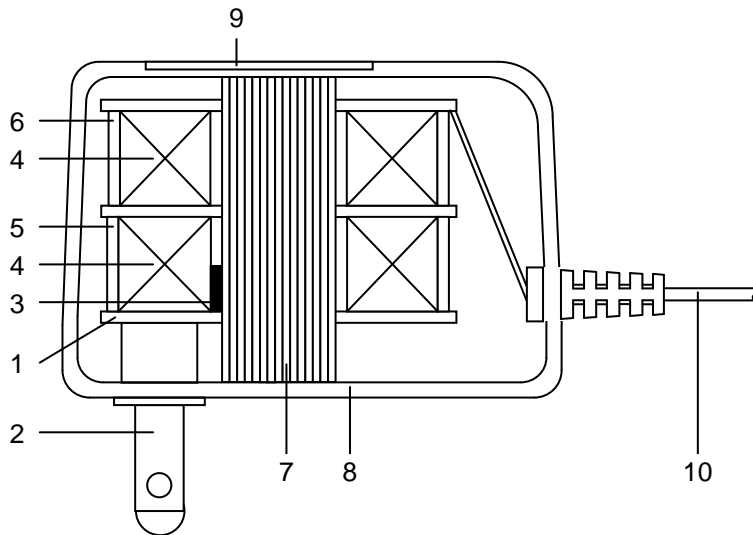


APP.BY _____

CHK.BY _____

PRE.BY _____

10.0 MATERIAL LIST:



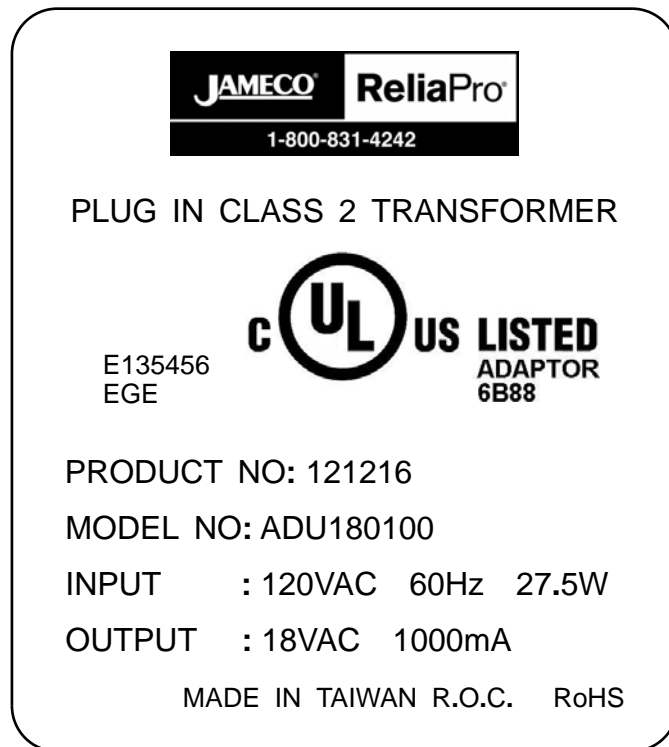
NO.	DESCRIPTION	MATERIAL	SPEC. & Q'TY	MANUFACTURE
1	BOBBIN	70G33L(E41938)		EAST TUNG JUNG PLASTIC HARDWARE CO., LTD. HWA YUE LTD.
2	PRIMARY BLADES	NICKEL PLATING		SPREAD PROFIT ELECTRONIC (DONG CO., LTD.
3	THERMAL CUTOFF	L20 (E142267) A2-F(E140847)	115°C 115°C	JOINT FORCE METAL RESEARCH & CO. AUPO ELECTRONICS LTD.
4	ENAMELED WIRE	POLYURETHANE ENAMELED COPPER WIRE(E85640(S))		FENG CHING METAL CORP. TAI-L ELECTRIC WIRE & CABLE CO., LTD.
5	PRIMARY OUTER WRAP	POLYESTER FILM TAPE (E81174(S))	0.05mm(4T)	QUN YI TAPE (DONGGUAN) CO., LTD. CHYUN YIH TAPE CO., LTD.
6	SECONDARY OUTER WRAP	POLYESTER FILM TAPE (E81174(S))	0.025mm(2T)	QUN YI TAPE (DONGGUAN) CO., LTD. CHYUN YIH TAPE CO., LTD.
7	CORE	SILICON STEEL	0.5mm	SHENZHEN CHUNYUAN STEEL INDUSTRIAL CO., LTD.
8	ENCLOSURE	NORYL SE100X (E161723)		SABIC INNOVATIVE PLASTICS CHINA CO., LTD.
9	NAMEPLATE	PLASTIC FILM	0.2mm	GUANG MING YOU TONG PRINTING FACTORY
10	OUTPUT CORD	FLEXIBLE CORD (E112781)	AWG#22 UL 2468	HUAN WEI ENTERPRISE CO., LTD. MING SHENG ENTERPRISE CO., LTD.

APP.BY _____

CHK.BY _____

PRE.BY _____

11.0 NAMEPLATE DRAWING: (UNIT:mm)



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

APP.BY _____

CHK.BY _____

PRE.BY _____