

# SPECIFICATION FOR APPROVAL

CUSTOMER: JAMES

PART NO: 100870

MODEL NO: DDU120100

DESIGNED NO: Z7972 (RoHS)

REVISION: 1-1

CATEGORY: AC ADAPTOR

DATE SUBMITTED: 2012.12.18

SAMPLE/SPECIFICATION SUBMITTED	CONCLUSION	APPROVED
		REJECTED
		CONDITON APP'D
SAMPLE 0		
SPECIFICATION 1		

CUSTOMER'S SIGNATURE:



聯輝電機股份有限公司

EVER-GLOW ELECTRONIC CO., LTD.

臺灣: 高雄縣鳳山市輜汽路2號

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HSIEN 830, TAIWAN, R.O.C.

TEL:886-7-7711136(REPRESENTATIVE) FAX:886-7-7711145

東聯興科技(深圳)有限公司

DONG LIAN XING TECHNOLOGY (SHEN ZHEN)CO.,LTD.

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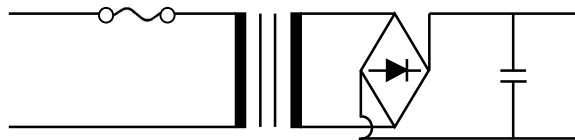
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REV	DESCRIPTION	DATE
1-0	Initial released	
1-1	RoHS	2012/12/18

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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 (I<sub>o</sub>) : 100 mA rms max. at input 120 VAC 60 Hz.
- 1.3 Input load current (I<sub>p</sub>) : 230 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 r.m.s.	No load voltage
	12VDC $\pm$ 5%	1000mA	mV MAX.	17VDC $\pm$ 5%

- 1.7 D.C.resistance : Primary 44  $\Omega$  $\pm$ 15%, 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 $\Omega$  min,between input to output plug and case.
- 1.10 Temperature rise test : input 120 VAC 60 Hz, output load 1 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
- ◆ Apperance

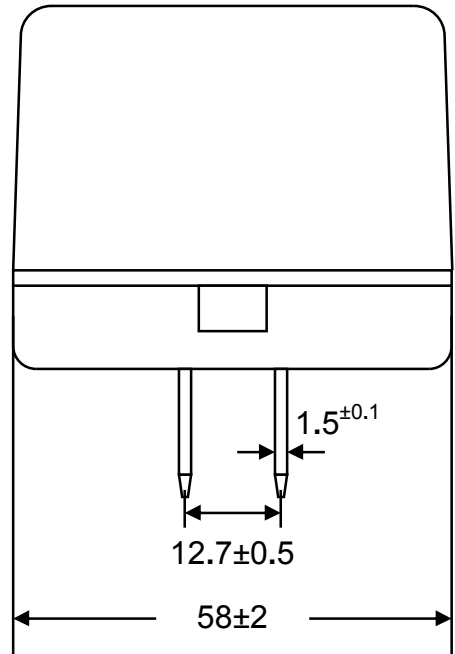
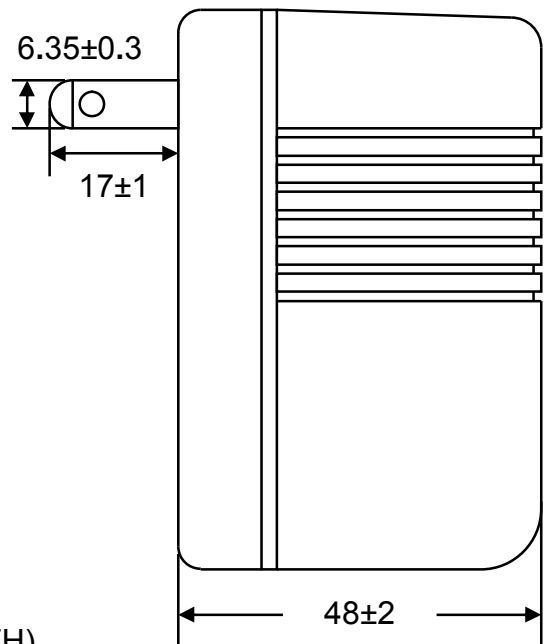
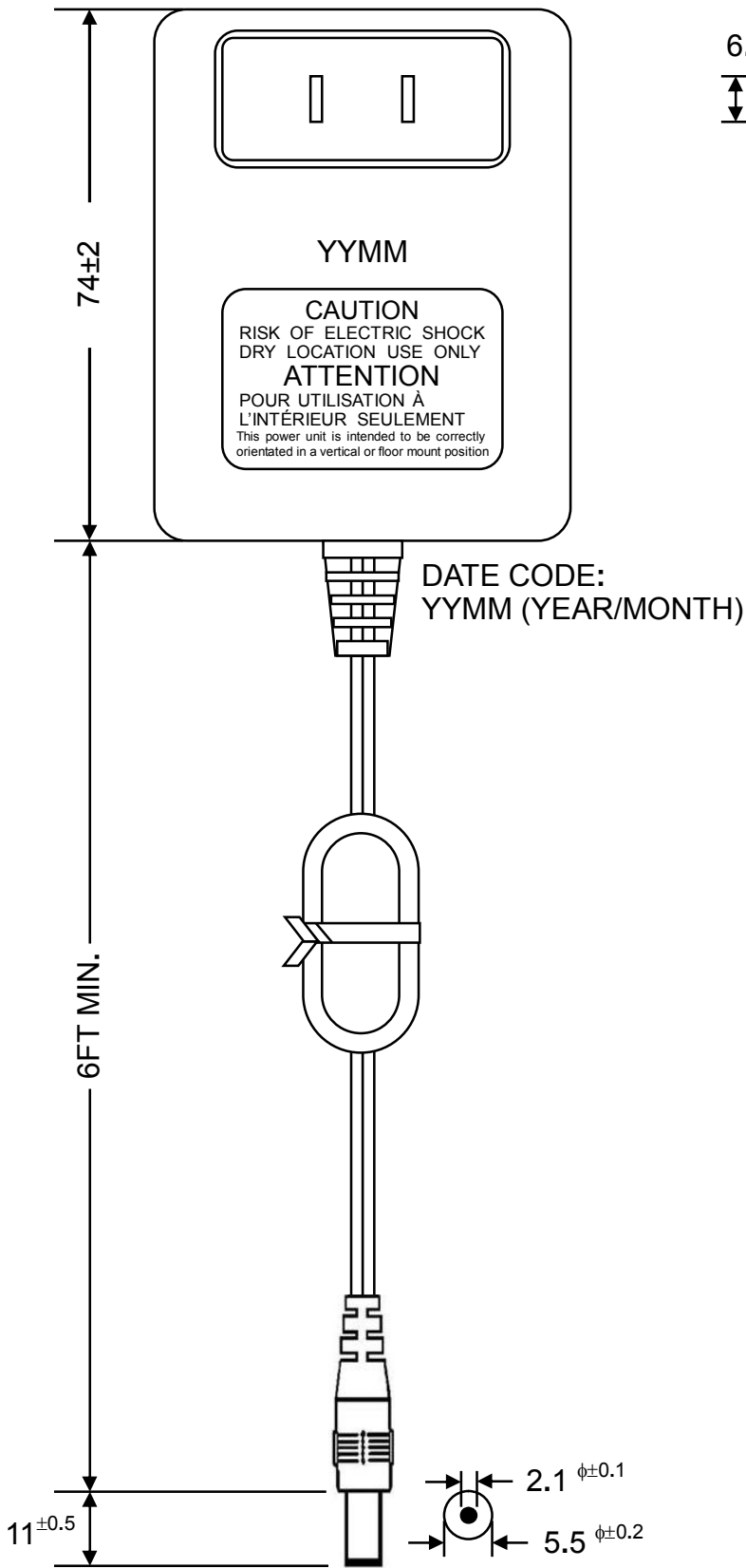
6.2 The test item for part of products

- ◆ Hum operating at rated load
- ◆ D.C.resistance
- ◆ Insulation test

7.0 NET WEIGHT : 400 g

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8.0 APPEARANCE DIMENSION: ( UNIT:mm )



NOTE:

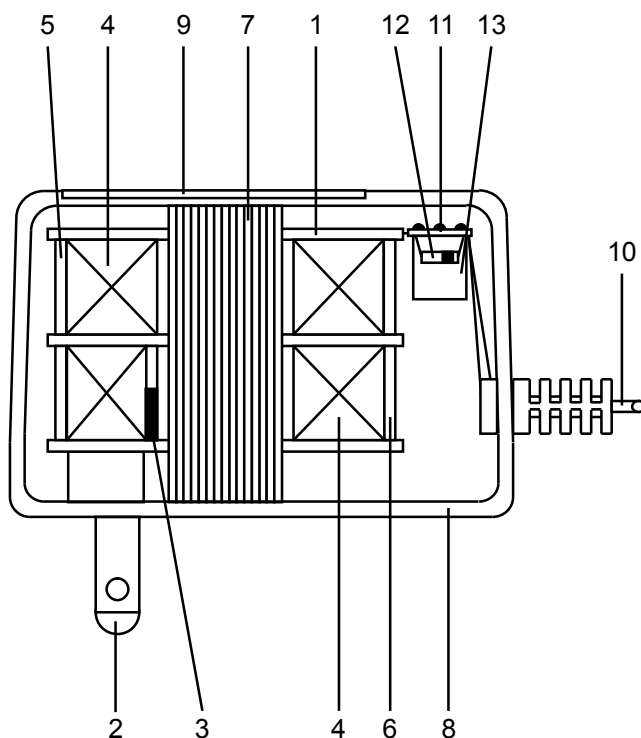
OUTPUT CORD: UL 2468 AWG#22

DC PLUG: 5.5 $\phi \pm 0.2$  x 2.1 $\phi \pm 0.1$  x 11 $\phi \pm 0.5$

CENTER: ⊕

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9.0 MATERIAL LIST:



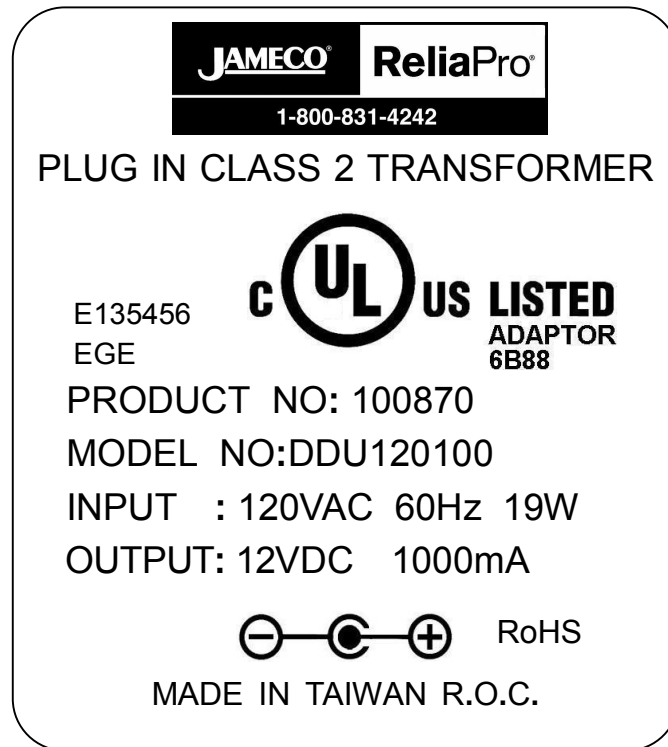
NO.	DESCRIPTION	MATERIAL	SPEC. & Q'TY	MANUFACTURE
1	Bobbin	70G33L(E41938)		East Tung Jung Plastic Hardware Co., Ltd. Hwa Yue Ltd.
2	Primary Blades	Nickel Plating		Spread Profit Electronic (Dong Guan) Co., Ltd.
3	Thermal Cutoff	L20 (E142267) A2-F(E140847)	115°C 115°C	Joint Force Metal Research & Co. Aupo Electronics Ltd.
4	Enameled Wire	Polyurethane Enameled Copper Wire(E85640(S))		Feng Ching Metal Corp. Tai-I 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	0.35mm	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 UL2468	Huan Wei Enterprise Co., Ltd. Ming Sheng Enterprise Co., Ltd.
11	Rectifier Board	P.C.B.(E105119)	94V-0	Chih Hsien Enterprise Co., Ltd.
12	Diodes	1N5391---5		Master Instrument Corporation Shanghai Ltd.
13	Capacitor	1000uf/20V		Fuh Yin Electronics Co., Ltd.

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10.0: SAMPLE TEST DATA:						
ITEM	SPEC	SAMPLE				
		1	2	3	4	5
PRIMARY EXCITING CURRENT I/P: 120VAC 60Hz	100mA MAX.	56				
PRIMARY LOAD CURRENT I/P: 120VAC 60Hz	230mA MAX.	180				
SECONDARY VOLTAGE NO LOAD	17VDC±5%	16.89				
SECONDARY VOLTAGE LOAD: DC 1000mA	12VDC±5%	12.22				
HI-POT TEST	INPUT TO OUTPUT 60 SECONDS	AC1240V 1mA	OK			

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## 11.0 NAMEPLATE DRAWING: ( UNIT:mm )



1.MATERIAL:Plastic Film

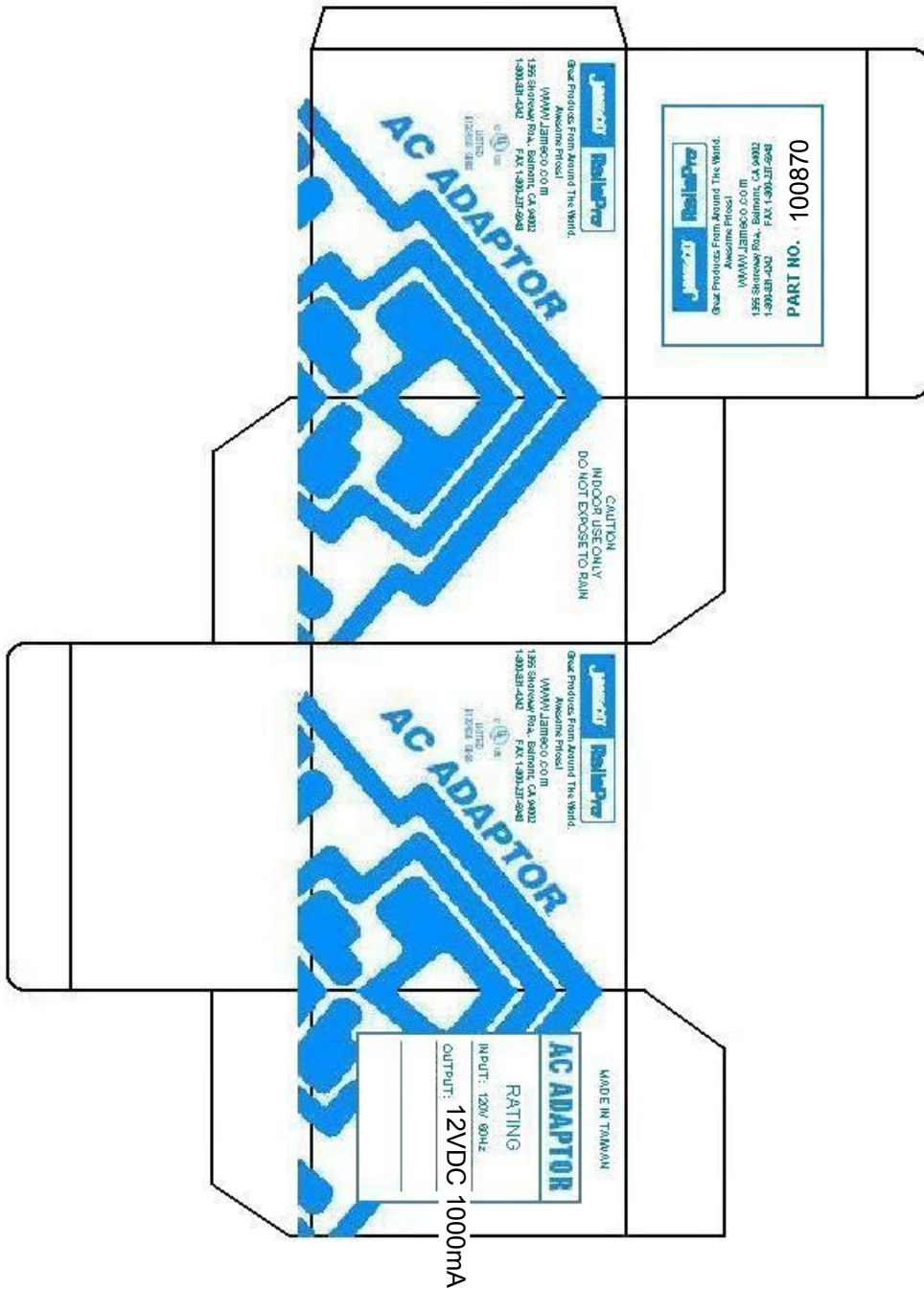
2.THICKNESS:0.2

3.PRINTING:WORD & :BLACK / BACKGROUND: SILVER

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12.0 BOX DIMENSION: ( UNIT:mm )

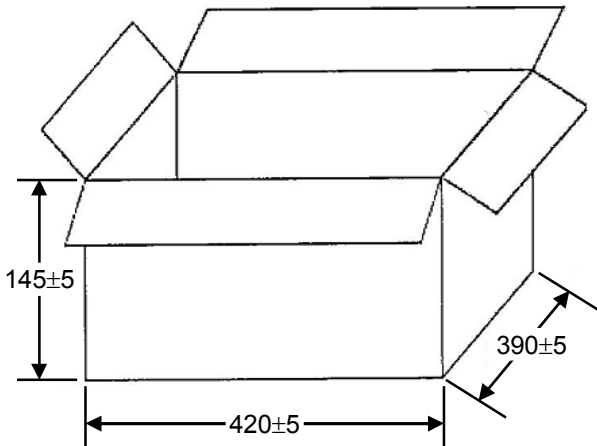
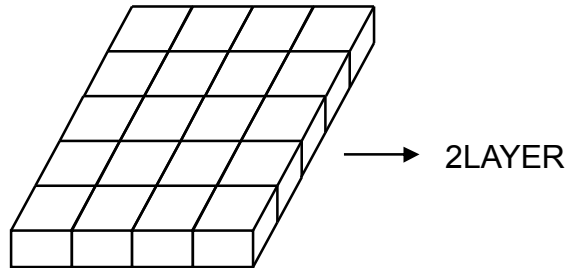
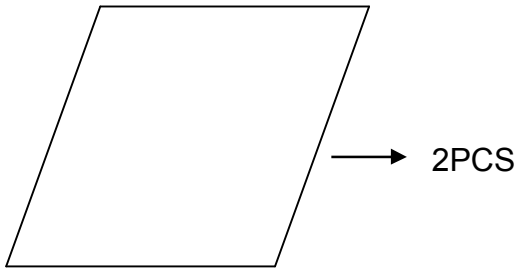


NOTE:

- 1. DIMENSION:100x60x74
- 2. WEIGH:450 POUNDS
- 3. PRINTING:WORD & PATTERN:BLUE / BACKGROUND: WHITE  
COLOR NO.:PMS300

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13.0 PACKING LIST: ( UNIT:mm )



OBVERSE SIDE



Oakland, U.S.A.  
C/NO.  
Made in Taiwan

FLANK SIDE

PO#            P/N#  
Q'TY:    40    PCS  
Ship Date:Month/Day/Year

NOTE:

- 1. 2LAYER/CARTON
- 2. 20PCS/LAYER
- 3. 40PCS/CARTON

APP.BY \_\_\_\_\_ CHK.BY \_\_\_\_\_ PRE.BY \_\_\_\_\_