

ENGINEERING CHANGE REQUEST

ORIGINAL/修改前

REVISION/修改后

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REV	DATE	DESCRIPTION	REVISION OF CAUSES/修改原因:

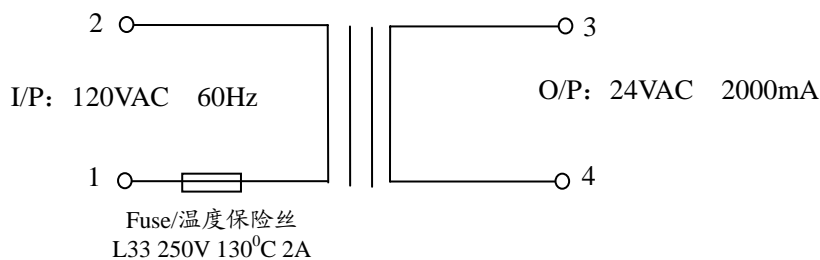
DRAWER/制定	CHECKED/审核	APPROVED/核准	CUSTOMER/客户	
邓惠娟	龙见灿	黄元坤	MODEL NO/型号	GPU572402000WAOO
			REV/版本	A
			DATE/日期	April 4, 2018
			PAGES/页码	1/9

1.ELECTRICAL PERFORMANCE/电气特性:

1-1.Primary rated voltage and frequency: 120VAC 60Hz.

初级级额定电压及频率: 120VAC 60Hz.

1-2.ELECTRICAL CHARACTERISTICS/电气原理图:



1-3. Secondary rated voltage and current/次级额定电压及电流

TEST POINT /测试点	FULL LOAD RATED VOLTAGE /负载额定电压	RATED CURRENT /额定电流	VOLTAGE REGULATION /电压调整率	NO LOAD VOLTAGE /空载电压
3~4	24VAC±5%	2000mA		27.5VAC±5%

1-4.Primary exciting current(I₀): 115mA rms max,at input 120VAC 60Hz.

初级空载电流(I₀): 有效值最大 115mA 输入 120VAC 60Hz.

Loading(I_L): 575mA rms max.

初级负载电流(I_L): 有效值 575mA 最大.

1-5.D.C.Resistance: Primary: Ω±15%,measured at25°C.

初级直流电阻: Ω±15%,环境温度 25°C.

1-6.Empty loss max: 4.5watts max,at input 120VAC 60Hz.

最大空损: 4.5watts,输入 120VAC 60Hz.

1-7.Temperature rise: 85°C max on primary coil by the resistance method,and 45°C max on the surface of the case by the thermometer method at 25°C ambient,rated load condition.

额定负载下电阻法线圈最大温升 85°C.热偶法外壳表面最大温升 45°C,环境温度 25°C.

1-8.Insulation resistance: 500VDC supplied,100M ohms minimum between winding & core.

绝缘电阻: 线圈与铁芯间加 500VDC,绝缘电阻不小于 100MΩ.

1-9.HI-pot test: 1750VAC 50Hz for 60seconds (leakage current 1mA) primary to secondary&core.

耐压强度测试: 初级-次级、初级-铁芯压 1750VAC 50Hz 60 秒 (漏电流 1 毫安) 无击穿、无拉弧.

1200VAC 50Hz for 60seconds (leakage current 1mA) secondary to core.

次级-铁芯 1200VAC 50Hz 60 秒 (漏电流 1 毫安) 无击穿、无拉弧.

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			PAGES/页码	2/9

1-10. Induce voltage: All secondary opened, primary should withstand 240V 360Hz for 60second without breakdown.

倍频倍压测试: 所有次级开路, 初级需承受电压 240V 360Hz 60 秒而无击穿.

1-11. Life test: In an ambient temperature of 25°C ,90-95% R.H., applying a power source of 120VAC 60 Hz to primary, with full load 2000 mA for 24 hours continuously, unit output normally and meet the requirements of item 1-8、1-9.

老化测试: 环境温度 25°C, 相对湿度 90-95%, 输入电压 120VAC 60 Hz 时, 带额定负载 2000mA 连续工作 24 小时, 产品输出正常且满足 1-8、1-9 项特性要求.

1-13. Humidity test: In an ambient temperature of 25±2°C and 90-95% R.H. for 48 hours after 10 minutes out of the oven, the unit should meet item 1-9 requirements, and insulation Resistance shall be 10M ohms minimum.

耐湿测试: 在环境温度 25±2°C, 相对湿度 90-95% 条件下放置 48 小时, 取出 10 分钟后, 产品需满足第 1-9 项要求, 且绝缘电阻不小于 10MΩ

2. MECHANICAL CHARACTERISTICS/机械特性:

2-1. 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 1-9

落地测试: 从 3 英尺高自由落到表面铺有 1/8 英寸厚聚乙稀垫的水泥地板上, 三个不同面各一次, 产品需符合 1-9 项特性要求.

2-2. Strain relief test: At normal position, 10 lbs to output cord for 60 secods each, there shall be no breakage displacement.

S/R 吊重试验: 在正常位置, 输出线需吊重 10 英磅, 持续 60 秒钟不可断裂. S/R 不可有移位现象.

2-3. Bending test: The plug and S/R should withstand weight of 200 gram, swinging from left to right at an angle of 120 degree for 1500 cycles, and 40cycles per minute. The cord shall be conductible.

摇摆测试: 输出线吊重 200 克, 摆动角度 120 度, 每分钟 40 来回, 1500 个来回后仍需导通.

3. SAFETY STANDARD/安规标准:

- ◇ Meet/符合
- ◆ Approved/认可
- ◆ UL/CUL
- ◇ CSA
- ◇ TUV/CE
- ◇ BSI/CE
- ◇ T-MARK
- CQC

◇ CCC

4. INSULATION SYSTEM/绝缘系统:

- ◇ CLASS A (105°C)
- ◇ CLASS E (120°C)
- ◆ CLASS B (130°C)
- ◇ CLASS F (155°C)

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			DATE/日期	April 4, 2018
			PAGES/页码	3/9

5. MECHANICAL REQUIRMENTS/外观要求:

5-1. Appearance: Damage and rusting are not permitted.

外观: 无损伤无锈迹

6. ENVIROMENTAL CONDITION/外部条件:

6-1. Operating temperature range: -10°C---+40°C

正常工作温度: -10°C---+40°C

6-2. Storage temperature range: -20°C---+80°C

存贮温度: -20°C---+70°C

6-3. Operation humidity range: 30---85% R.H

正常工作湿度: 30---85% R.H

7. INSPECTION ON LINE/线上检测:

7-1. The test items for each produce/全检项目

- ◆ Primary exciting current/初级激磁电流
- ◆ Core loss/铁芯损耗
- ◆ Output voltage/输出电压
- ◆ Input current and power at rated load/输入电流及功率
- ◆ Foreign mass by shock/敲击听异物
- ◆ Polarity of output plug/输出极性
- ◆ Hi-pot test/耐压测试
- ◆ Apperance/外观检查

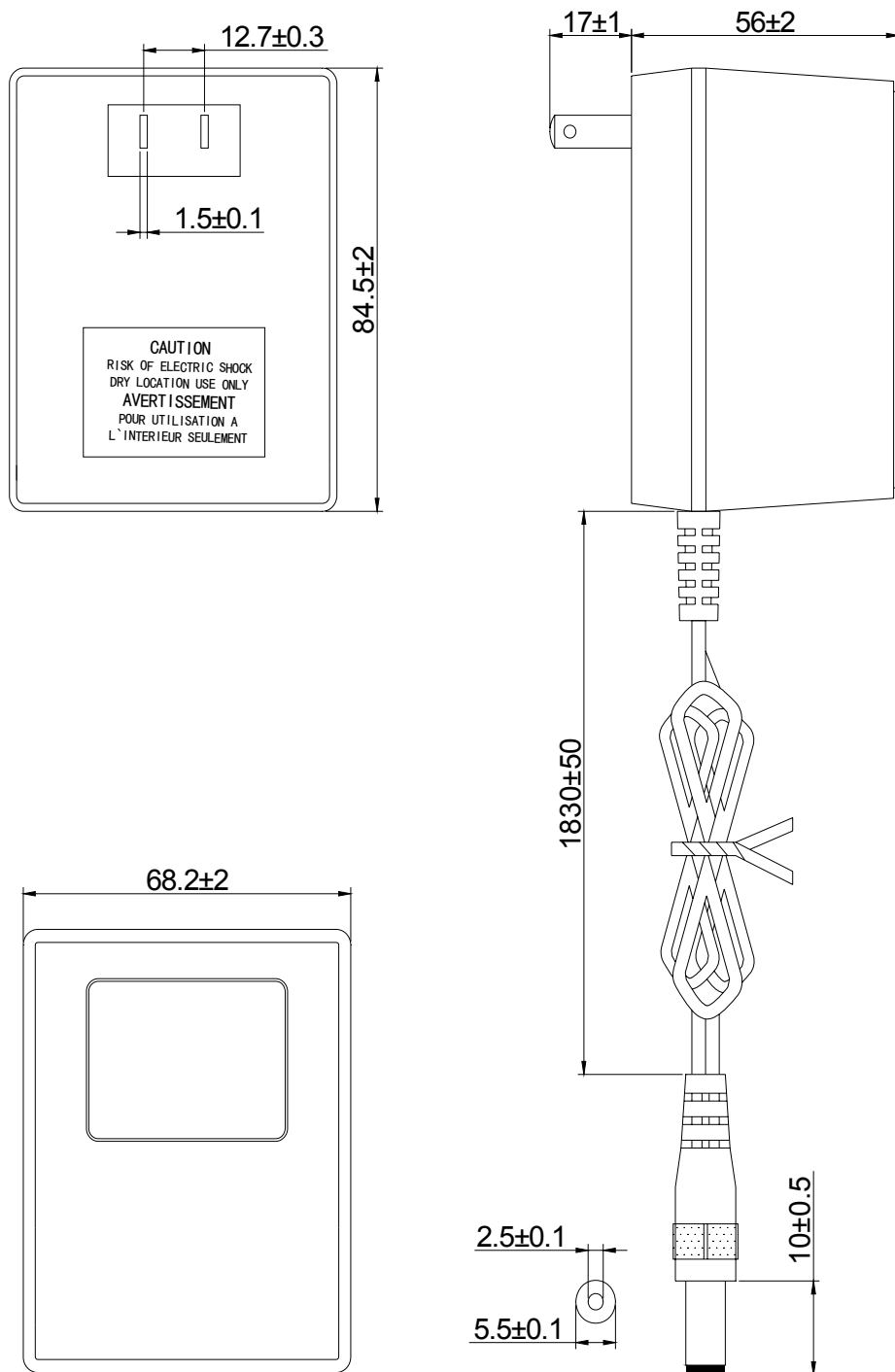
7-2. The test item for part of products/抽测项目:

- ◆ Hum operating at rated load/额定负载时哼声
- ◆ D.C. Resistance/直流电阻
- ◆ Insulation test/绝缘测试

8. NET WEIGHT/单体净重/g

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			REV/版本	A
			DATE/日期	April 4, 2018
			PAGES/页码	4/9

9.APPEARANCE DIMENSION/外观尺寸图: (UNIT/单位: mm)



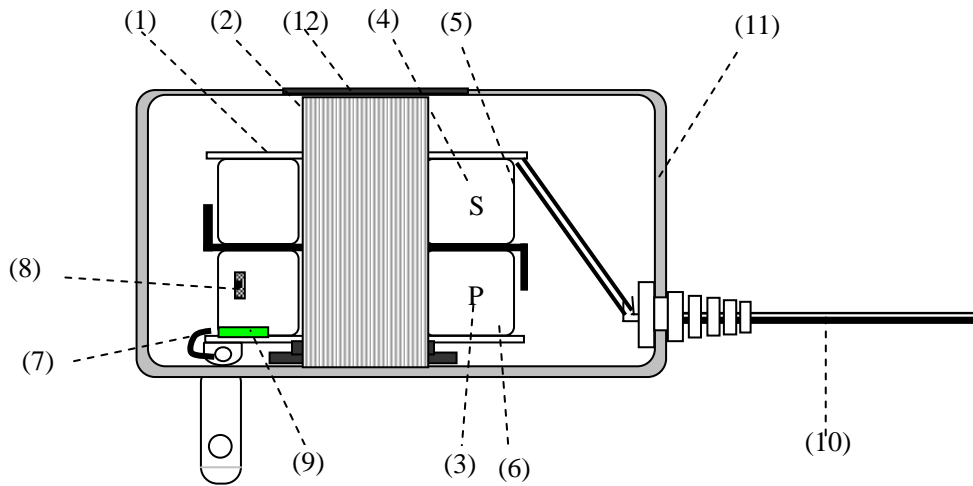
OUTPUT CORD/输出线: 2468#20AWG 1.83M 直头

PLUG/DC 插头: $5.5 \pm 0.1 \text{mm} \times 2.5 \pm 0.1 \text{mm} \times 10 \pm 0.5 \text{mm}$

CENTER/中心:

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			REV/版本	A
			DATE/日期	April 4, 2018
			PAGES/页码	5/9

10.MATERIAL LIST /材料明细:



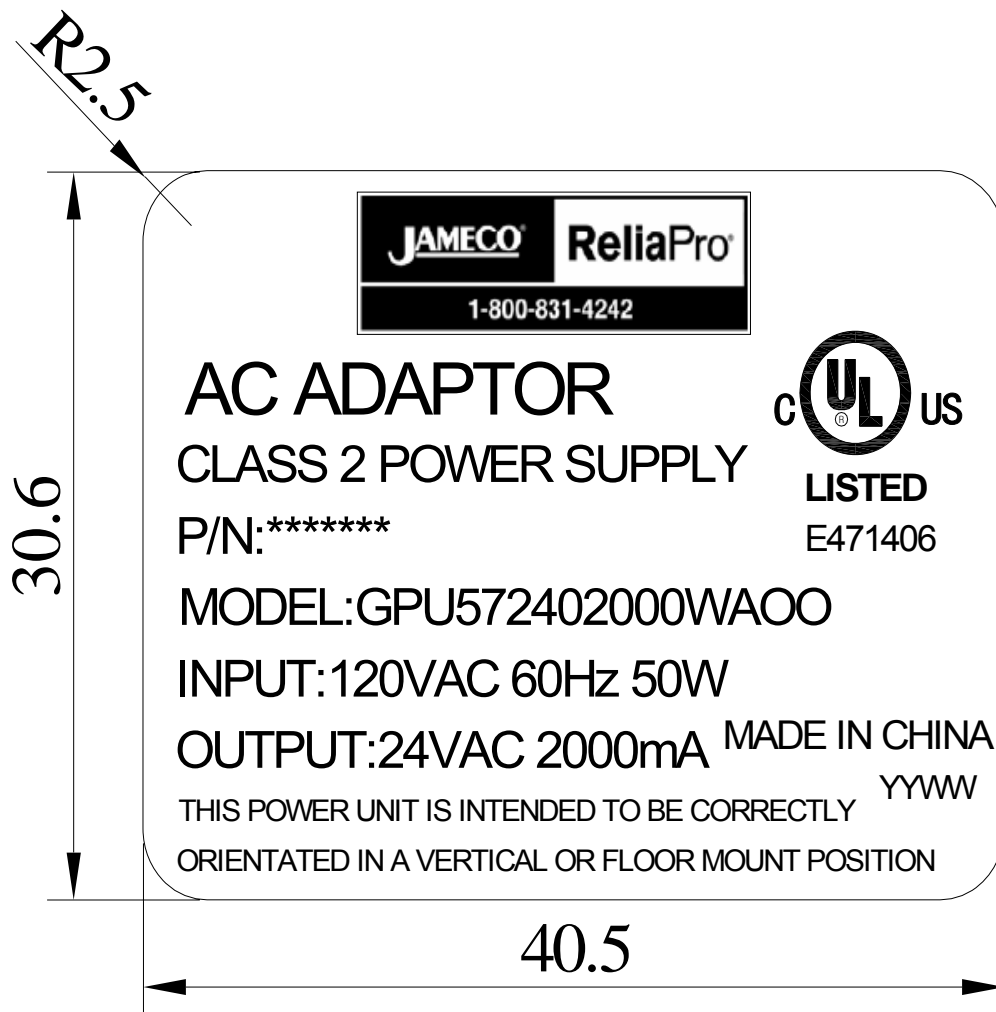
ITEM M 序号	PARTS NAME 材料名称	MATERIAL&SPEC 材质	Q'TY 数量	MANUFATURER 供应商			
1.	BOBBIN 线架	Nylon CLASS B 尼龙	THICK0.71mm MIN	E I DUPONT DE NEMOURS&CO INC(E41938M)			
2.	CORE 铁芯	E-I LAMINATED SILICON STEEL/E-I 硅钢片		BEST LEGEND HUI DINGS LTD			
3.	PRI.WINDING 初级线圈	2UEW MAGNET WIRE CLASS B 2UEW 漆包线		PACIFIC ELECTRIC WIRE & CABLE CO., LTD			
4.	SEC.WINDING 次级线圈	2UEW MAGNET WIRE CLASS B 2UEW 漆包线		JUNG SHING WIRE CO., LTD E201757/E174837			
5.	SEC.OUTER INSULATION 次级绝缘	MYLAR TAPE 0.025mm 玛拉胶带 0.025mm		JING JIANG PRESSURE SENSITIVE CO.,LID E165111(N)			
6.	PRI.OUTER INSULATION 初级绝缘	MYLAR TAPE 0.025mm 玛拉胶带 0.025mm					
7.	LEAD WIRE/引线	UL1015# AWG22 红色		CHINA LONSID ELECTRONIC CO.,LTD E251728/E21382/E189474/E332522 E249743			
8.	PROTECTION 保护器	THERMAL CUTOFF130℃ 2A 250V 温度保险 L33		JOINT FORCE METAL RESEARCH & CO JING JIANG ZING CHENG ELECTROTICS CO.,LTD E142267/R2134811/E140847			
9.	Primary Crossover Insulation/ 初级直立绝缘	ACETATE CLOTH TAPE CLASS B/皱纹胶		DUCK SUNG TAPE CO.,LTD(E105147)			
10.	OUTPUT CORD/输出 线	2468#20AWG 黑色 5.5*2.5		XIN LONG ELECTRONIC CO.,LTD. E332522 E157717E164535/E189674/E341894/E49420 5			
11.	ENCLOSURE/外壳	57# UL 插黑色		WEI DA INDUSTRIAL CO.,LTD			
12.	NAMEPLATE 铭牌	PVC(UL/CSA)OR ALUMINUM PVC(UL/CSA 认可)或铝质		YOUNG TONE PRINTING MFG MH27610			
13.							
14.							
NOTE	Vannish/凡立水	VARNISH V-1630FS		VIKING ELECTRONIC CO., LTD E60614			
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						PAGES/页码	6/9

11.SAMPLE TEST DATA/样品测试报告:

ITEM/项目		SPEC/范围		SAMPLE/样品编号						
				#1	#2	#3	#4	#5	#6	
PRIMARY EXCITING CURRENT 初级空载电流(I ₀) I/P: 120VAC 60Hz		115mA MAX		59.6						
PRIMARY FULL LOAD CURRENT 初级负载电流(I _L) I/P: 120VAC 60Hz		575mA MAX		489.2						
SECONDARY VOLTAGE 次级电压 NO LOAD/空载(V _O)		27.5VAC±5%		27.48						
SECONDARY VOLTAGE 次级电压(V _L) FULL LOAD/负载: AC 2000mA		24VAC±5%		23.91						
NO LOAD CORE LOSS 空载损耗(P ₀) I/P: 120VAC 60Hz		3.5W MAX		2.61						
Hi-pot test 耐压	PRI.TO SEC-CORE 初级-次级-铁芯	AC 1750V/1mA/50Hz/60Seconds 交流 1750V/1mA/50Hz/60 秒		OK	OK					
	SEC.TO CORE 次级-铁芯	AC 1200V/1mA/50Hz/60Seconds 交流 1200V/1mA/50Hz/60 秒		OK	OK					
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						REV/版本		A		
						DATE/日期		April 4, 2018		
						PAGES/页码		7/9		

12.NAMEPLATE DRAWING/铭牌图案:

Unit: mm
单位: (mm)

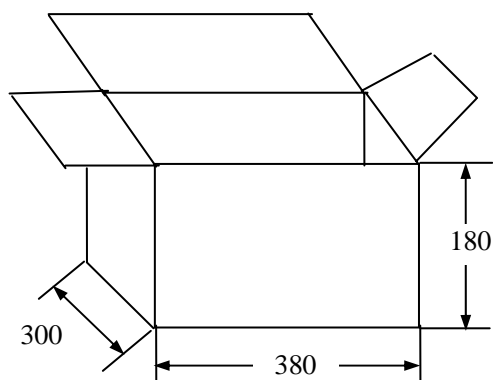


NOTE:

- 1、材质 PVC 0.17mm THICK MIN
- 2、银底黑字
- 3、自粘型
- 3、YY 表示年份 WW 表示周期

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			DATE/日期	April 4, 2018
			PAGES/页码	8/9

13.PACKING/包装



(外箱尺寸)

L: 380mm W: 300mm H: 180mm

13-1: 外箱

- 1、依照图面尺寸制作，尺寸为外径尺寸，
- 2、材质：外箱使用 B=B 纸，
- 3、使用机种：EI-57。
- 4.白盒(120*70*80)
- 5.包装数量：24PCS/箱
每层 3 排 4 行，每箱二层。

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