

1.INPUT:

Code : 33774421

- 1.1 Input voltage rating : 100-240V AC
- 1.2 Input voltage range: 90-264V AC
- 1.3 Input frequency rating : 60/50Hz
- 1.4 Input frequency range: 63/47Hz
- 1.5 AC input current: 0.4A Max .@100V AC
- 1.6 AC input power saving: 0.3W Max .@230V AC at no load
- 1.7 Inrush Current: 30A Max .@100VAC cold start
60A Max .@230VAC cold start
- 1.8 Leakage current: 0.25mA Max

2. Output characteristics

- 2.1 Output voltage: 12V
- 2.2 Max. load current 1A
- 2.3 Min. load current 0A
- 2.4 Output no-load voltage: 12V±5%
- 2.5 Output load voltage: 12V±5%
- 2.6 Output ripple & noise: 300mV max.

Measured by using a 12inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel

3. General characteristics

- 3.1 Total output power: 12Watts
- 3.2 Efficiency measurement : 77%(Min.)@full load & input 230VAC, Output set to 12V/1A.
For production testing: 77%(Min.)@full load & input 115VAC, Output set to 12V/1A.
Efficiency : 77.85%(Min.) at 115Vac 60Hz and 230Vac 50Hz input,
and 25%, 50%, 75%, 100% of full load after 20minutes warm-up.
i.e. meet CEC level V and Erp 2 .
- 3.3 Short circuit protection: No damage when output is shorted to GND.
And after short circuit , auto restart .
- 3.4 Overshoot / Undershoot: 12V±10%

4. Environment:

- 4.1 Operating temperature: 0~40°C
- 4.2 Storage temperature: -25°C to 85°C
- 4.3 Operating humidity: 8% to 90%
- 4.4 Storage humidity: 5% to 95%

5. Application safety standard : meet

- | | | | |
|-----------------------------------|-----------------------------------|--|---------------------------------|
| <input type="checkbox"/> UL 60950 | <input type="checkbox"/> EN 60950 | <input checked="" type="checkbox"/> AS/NZS 60950 | <input type="checkbox"/> J60950 |
| <input type="checkbox"/> UL 60065 | <input type="checkbox"/> EN 60065 | <input type="checkbox"/> AS/NZS 60065 | <input type="checkbox"/> J60065 |
| <input type="checkbox"/> UL 1310 | <input type="checkbox"/> EN 60335 | <input type="checkbox"/> GB4943 | <input type="checkbox"/> J61558 |
| | <input type="checkbox"/> EN 61558 | <input type="checkbox"/> GB8898 | |

6. EMI standard : meet

- | | |
|--|--|
| <input type="checkbox"/> FCC Part 15 Class B | <input type="checkbox"/> GB 9254-2008 |
| <input checked="" type="checkbox"/> EN 55022: 2010+AC:2011 | <input type="checkbox"/> GB 17625.1-2012 |
| <input type="checkbox"/> EN 55013: 2013 | <input type="checkbox"/> J55022 |
| | <input type="checkbox"/> J55013 |

7. HI-POT test

- (1)Primary to secondary: 4525VDC for 3sec. 5mA(production testing)
4242VDC for 1min. 5mA(Sample testing)
- (2)Primary to case: 4525VDC for 3sec 5mA(Production test)
(only for metal case)

8. Insulation resistance

Input to output: >10Mohm.@500VDC

9. Reliability:

- 9.1 MTBF: 50K hours min. @full load at 25°C ambient temperature
- 9.2 Burn-in: 2~4hrs,40+/-5°C 240VAC,ON/OFF cycling full load nominal line
- 9.3 Altitude: Will operate properly at altitude between 0 to 10000ft

10. Mechanical

10.1 Dimensions: Please see the mechanical dimension drawing.

10.2 Weight: 101.8g

11. Mechanical specification:

11.1 AC plug: as drawing

11.2 AC CORD: as drawing

11.3 DC cord:

11.3.1 Bending test: With load 200g, then bend 120 degree at ratio of 45times/minute.

18AWG	4500cycles Min
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20AWG	2400cycles Min
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22AWG	2000cycles Min
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24AWG	1500cycles Min
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11.4 Cord length: attached drawing

11.5 Output plug: attached drawing

11.6 Case Size: attached drawing

11.7 Label

11.8 Package

SAMPLE PRIMARY TEST REPORT/样品初测报告

CUSTOMER/客户		Radio		PRODUCT NO./产品编号						GPE125			
MODEL NO./产品型号		125-120100-4											
Test Items./测试项目	Test Condition/测试条件	Unit/单位	Sample quantity and test result/样品数量和测试结果										Pass/Fail
			1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	
Unload output voltage/ 空载输出电压(0.0A) 11.4Vdc -12.6Vdc	90Vac	V	11.90	11.95	11.90								PASS
	115Vac	V	11.89	11.94	11.89								PASS
	230Vac	V	11.86	11.90	11.85								PASS
	264Vac	V	11.85	11.89	11.84								PASS
Rated load output voltage/ 额定负载输出电压 (1.0A) 11.4Vdc - 12.6Vdc	90Vac	V	12.25	12.25	12.24								PASS
	115Vac	V	12.26	12.25	12.25								PASS
	230Vac	V	12.26	12.25	12.25								PASS
	264Vac	V	12.26	12.25	12.25								PASS
Output ripple & noise voltage/ 输出纹波及噪声电压≤300mV	90Vac	mV	122	155	129								PASS
	115Vac	mV	128	165	125								PASS
	230Vac	mV	118	147	133								PASS
	264Vac	mV	129	155	122								PASS
Short-circuit protection test/ 短路保护测试	90Vac	W	0.254	0.231	0.294								PASS
	264Vac	W	0.40	0.39	0.48								PASS
Over current protection/ 过流保护点(≥1.2A)	90Vac	A	1.70	1.70	1.60								PASS
	264Vac	A	1.80	1.90	1.80								PASS
IC Vcc voltage test/ Vcc电压测试(规格≤27V)	90Vac	V	23.44	22.55	22.83								PASS
	264Vac	V	23.30	22.58	22.64								PASS
Hi-pot test/ 介电强度	4242Vdc/3.5mA/ 1Minute		OK	OK	OK								PASS
Appearance/ 外观	无刮伤,字迹清晰 无误		OK	OK	OK								PASS
Mosfet(IC)/Vds耐压测试	264Vac	V	562	Mosfet规格	600	Derating≤95% Max. Volt.		93.67%					PASS
输出肖特基D/Vrr耐压测试	264Vac	V	89	Diode规格	100	Derating≤90% Max. Volt.		89.00%					PASS
变压器反馈绕组上所连接电阻(R)功率损耗(PD)	90Vac	P	-	R(功率)规格	-	Derating≤65% Max Power		-					PASS
	264Vac	P	-	R(功率)规格	-	Derating≤65% Max Power		-					PASS

DATE / 日期	2012.07.14	EDITION / 版本	0	PAGE / 页码	OF
TEST / 测试	陈彬	EE CHE./审核		EE CHE./审核	

CEC TEST

Model : 125-120100-4

Date : 2012.07.14

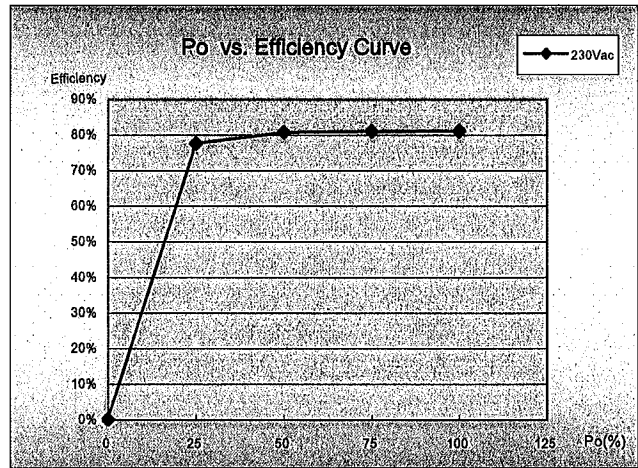
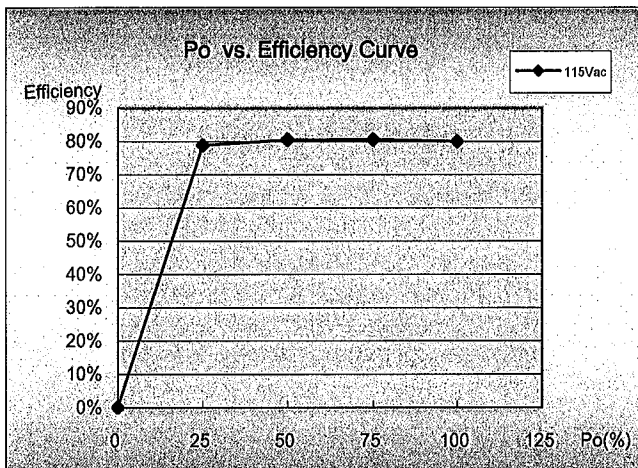
Tested by : 陈彬

Environment : ● Ambient ○ High ○ Low : 25°C

Test Condition: Vac=115V/230V ,Load :0~100% step Load :25%

1 Vin: 115Vac/60Hz							
Load (%)	Vout(V)	Iout(A)	PF	Pin(w)	Po(w)	Efficiency	Result
0	11.89	0.000	---	0.19	0	0.0%	PASS
25	12.18	0.250	---	3.86	3.045	78.9%	---
50	12.26	0.500	---	7.61	6.13	80.6%	---
75	12.31	0.750	---	11.46	9.2325	80.6%	---
100	12.26	1.000	---	15.32	12.26	80.0%	---
Po_typical (w)				12	Average 80.0%		PASS
					Spec. 77.85%		V

1 Vin: 230Vac/50Hz							
Load (%)	Vout(V)	Iout(A)	PF	Pin(w)	Po(w)	Efficiency	Result
0	11.85	0.000	---	0.22	0	0.0%	PASS
25	12.12	0.250	---	3.9	3.03	77.7%	---
50	12.20	0.500	---	7.55	6.1	80.8%	---
75	12.25	0.750	---	11.33	9.1875	81.1%	---
100	12.26	1.000	---	15.11	12.26	81.1%	---
Po_typical (w)				12	Average 80.2%		PASS
					Spec. 77.85%		V



RIPPLE AND NOISE TEST

Model : 125-120100-4

Date : 2012.07.14

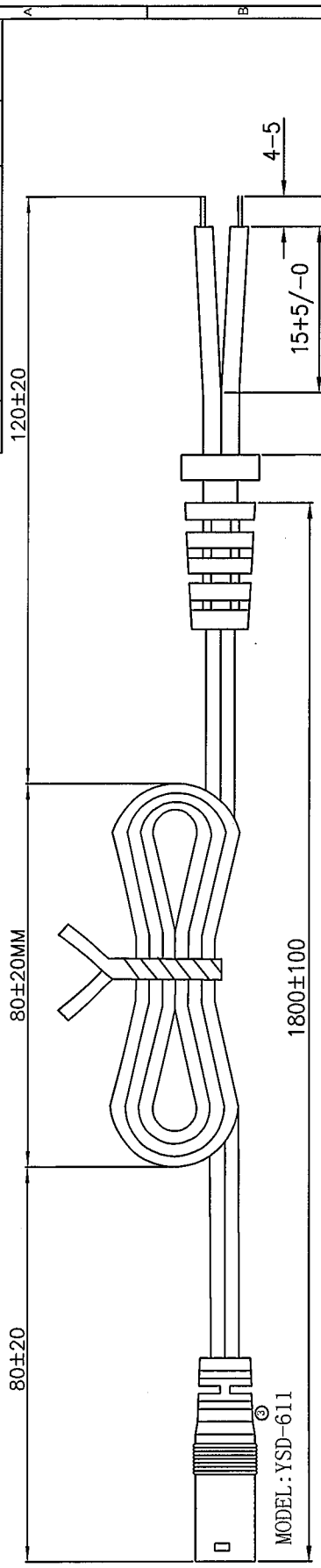
Tested by : 陈彬

Environment : Ambient High Low : 25°C

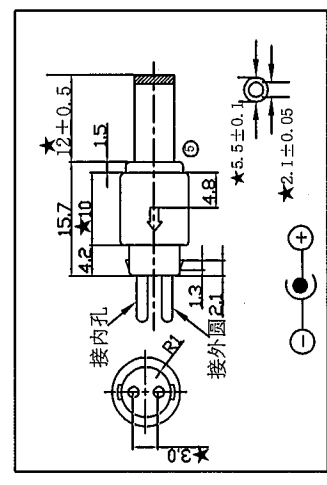
No.	90Vac		264Vac	
	Min. load	Max. load	Min. load	Max. load
1#	51	122	62	129
2#	58	155	64	155
3#	35	129	43	122
4#				
5#				
6#				
7#				
8#				
9#				
10#				
11#				
12#				
13#				
14#				
15#				
16#				
17#				
18#				
19#				
20#				

Specification : 300
 Measured : 155.0
 Test result : PASS

版本	变更内容	变更人	变更时间
B	1. 内长变为25MM 2. 转换头由YX399变更为YSD611	向增娟	2012.11.13

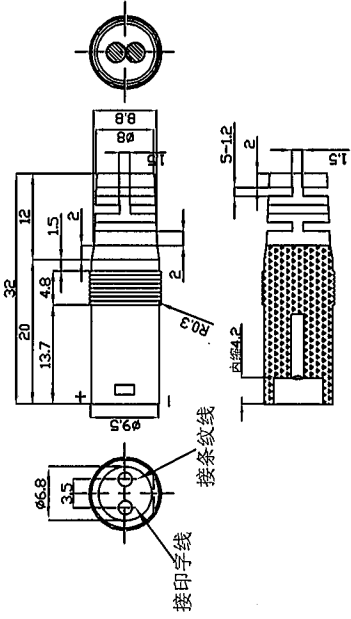


线材规格：黑色 22# 2468 印白边线接内孔 DC 母头配一可换插头



箭头指示正极
★为重点尺寸

★为重点尺寸



MODEL: YSD-611

DC 头规格：
编号：YSD611
包胶材质：50+/-5P PVC 黑色
DC 头规格：平头黑胶 2.1X5.5X12 直头
DC 直头配母头可拆卸转换

SR规格：
编号：YX462(828)
材质：70+/-5P PVC 黑色

- 技术要求：
1. 线材摇摆测试，拉力测试依照金盈线材测试标准。
 2. 热变形温度大于60度。
 3. 产品必须符合ROHS+PAHS+16P要求。

版本	
变更内容	
变更人	
变更时间	

