

| 部门/ Departments | 版本/ Version | 描述/Description | 日期/Date |
|-----------------|-------------|----------------|------------|
| 研发部 | 90W-3 | | 2016年12月5日 |
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产 品 规 格 书

Technical Specification

| | |
|--------------------|---------------|
| 样品名称/Sample Name: | AC-DC 电源适配器 |
| 产品型号/Product Type: | AC19V474XXB07 |
| 输出规格/Rated output: | 19V/4.74A |
| DC 头规格/Tip Size: | 5.5*2.5 |
| 编号/Part NO.: | |

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| 客户核对 CHECKED BY | 客户承认 APPROVED BY |
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| 深圳吉摩科技有限公司 SHENZHEN GODMOBI TECHNOLOGY CO.,LTD. | | 标题/TITLE: | |
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| 传真/FAX: 0755-81763857 | | Power Adapter Specifications | |
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1、描述/ DESCRIPTION:

本规格书适应于 **AC19V474XXB07** 型号的开关电源.

The purpose of the document is to specify the functional requirements of a **90W** switching power supply.

2、输入特性/INPUT CHARACTERISTICS:**2.1 输入电压/Input Voltage:**

额定电压/Rated Voltage:100~240Vac

调整范围/Variation Range:90-264Vac

2.2 输入频率/Input Frequency:

额定频率/ Rated Frequency: 50/60Hz.

调整频率/Variation Frequency:47-63Hz

2.3 输入电流/Input Current:

当输入交流电压为额定值的下限电压负载满载时,最大输入交流电流 **1.5A**.

1.5Amps max At any input voltage and rated, DC output rated load.

2.4 浪涌电流/Inrush Current:

当输出为额定负载,环境温度为 25℃,输入 240Vac 冷态起机时的最大浪涌电流小于 20A.

20 Amps Max. Cold start at 240Vac input, with rated load and 25℃ ambient.

2.5 AC 漏电流/Ac Leakage Current:

当输入电压 240Vac 时,最大漏电流为 0.25mA.

0.25mA Max.At240Vac input.

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3、输出特性/OUTPUT CHARACTERISTICS:

3.1 输出功率/Power output 及 PF

| 空载电压 Voltage | 最小负载 Min. Load | 额定负载 Rated. Load | 满载电压 Full load Voltage | 输出功率 Output power |
|-----------------|-------------------|---------------------|---------------------------|----------------------|
| 18.05-19.95V | 0.01A | 4.74.0A | 18.05-19.95V | 90W |
| PF | / | >0.6 | | |

3.2 纹波和噪音 Ripple and Noise:

测试条件:在额定电压及额定负载条件下,使用示波器带宽为 20MHz 连接到充电器的输出端,同时输出端并联一个 47uF 的电解电容和一个 0.1uF 的瓷片电容.

Under nominal voltage and nominal load,the ripple and noise are as follows when measure with Max.Bandwidth of 20MHz and Parallel 47uF/0.1uF,crossed connected at testing point.

| 电压 Voltage | 最大纹波/最大噪音 Ripple and Noise(Max.) |
|---------------|-------------------------------------|
| +19Vdc | 100mV p-p |

3.4 启动延迟时间/Turn on delay time:

当输入 115Vac 和输出最大负载时,最大启动时间为 3S.

5Second Max.at 115Vac input and output Max.load.

3.5 上升时间/Rise time:

当输入 115Vac 和输出最大负载时最大时间为 80 mS.

80 mS Max.at 115Vac input and output Max load.

3.6 保持时间/Hold up time:

当输入 115Vac 和输出最大负载时,最小保持时间为 5 mS .

5 mS Min.at 115Vac input and output Max.Load.

3.7 效率/Efficiency:

当输入 100Vac 和输出最大负载时,最小 88%.

88% Min. at 100Vac input and output Max.Load.

当输入 240Vac 和输出最大负载时,最小 88%.

88% Min. at 240Vac input and output Max.Load.

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3.8 过冲/Overshoot:

在电源开启或关闭的时候,最大 15%.

15% Max.When power supply at turn or turn off.

4、保护功能/PROTECTION FUNCTION:**4.1 短路测试/Short circuit test:**

该电源供给器在短路解除时能正常工作恢复.

The power supply will be auto recovered when short circuit faults remove.

4.2 过流保护/Over current Protection:

过流 7A Max 故障排除后,电源将自动恢复正常工作.

The power supply will be auto recovered when over current 7A Max faults remove.

4.3 过压保护/Over Voltage Protection:

当输出电压超过额定电压的 150%~180%时,电源将保护,故障排除后能恢复正常工作.

The power supply will auto recovered when faults remove 150%~180%.

5、环境要求/ENVIRONMENTAL REQUIREMET:**5.1 工作温度/Operating Temperature:**

0°C-40°C,满载,正常工作.

0°C to 40°C,Full load, Normal operation.

5.2 储藏温度/Storage Temperature:-20°C to 80°C

带外壳/With package

5.3 海拔高度

工作: 10000ft

存储: 20000ft

5.4 工作湿度/Relative Humidity:

5%(0°C)~90%(40°C),72 小时,满载,正常工作.

5%(0°C)~90%(40°C)RH,72Hrs,Full load, Normal operating.

5.5 振动/Vibration:

1. 测试标准:国际电工电子委员会

Operating: IEC 721-3-3 3M3

5~9Hz,A=1.5mm

加速度(9~200Hz,Acceleration 5m/S²)

2. 运输/Transportation:

IEC 721-3-2 2M2

5-9Hz,A=3.5mm

9~200Hz,加速度 Acceleration=5m/S²

200~500Hz,加速度 Acceleration=15m/S²

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3. 轴向振动/Axes,10 cycles per axis.

在测试过程中不能出现永久性的损坏.

No permanent damage may occur during testing.

在电源开启和关闭后,样机能够恢复到最初条件.

The SAMPLE has to restore to its original situation after power off/on..

5.6 跌落试验/Dropping Packed:

插墙式跌落高度为 1200mm、桌面式跌落高度为 1000mm;

1.2M for wall mount type and 1000mm for desktop type as above described;

测试台面是厚 13mm 的夹木板, 离地面高 19-20mm

The horizontal surface consists of hardwood at least 13mm thick, mounted on two layers of plywood each 19mm to 20mm thick,all supported on a concrete or equivalent non-resilient floor.

6、安全及 EMI 要求/SAFETY AND EMI REQUIREMENT:

6.1 安全: 符合标准 GB4943-2001.

Safety:accord with GB4943-2001.

6.2 高压/DIELECTRIC STRENGTH Hi-Pot:

初级对次级/Primary to secondary:3000VaC/5mA/10S for type test.

6.3 绝缘抗阻/Insulation resistance:

初级对次级/Primary to secondary:10MΩ min at 500V DC.

6.4 爬电距离≥6.mm

6.5 EMI 标准/EMI STANDARD

Meets the Limits of/测试符合

<1>.FCC part15 class B rules

<2>.EN60950 class B rules

<3>.GB9254-1998,GB17625.1-2003

<4>.GB9706.1-2007, (参考标准)

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7、产品尺寸/Product

7.1 外壳/Enclosure:

外壳尺寸: L125x W50 x H32mm

The power supply size: L125x W50 x H32mm;

7.2 输入插脚/Input pin:

3 Pin 国标插脚/Three pin CN. regulatory pin



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8、测试报告/ELECTRICAL TEST REPORT:

| No 序号 | Test item 测试项目 | Test condition 测试条件 | Standard spec 标准规格 | Test data 测试数据 | | | | | Unit 单位 | Judge 判定 |
|-------|-------------------------------|---|---|-------------------|---|---|---|---|------------|---------------|
| | | | | 1 | 2 | 3 | 4 | 5 | | Pass/ Fail |
| 1 | Output Voltage 输出电压 | Vin100Vac 60Hz Io=0 输入 100Vac 空载 | 18.05-19.95V | 19.25 | | | | | V | PASS |
| 2 | Output Voltage 输出电压 | Vin100Vac 60Hz Io=Rated Current 输入 100Vac 60Hz 额定电流 | 18.05-19.95V | 18.7 | | | | | V | PASS |
| 3 | Efficiency(Full load) 效率满载 | Vin 115Vac 60Hz 输入 115Vac 60Hz | ≥88% | 88.15 | | | | | % | PASS |
| 4 | Ripple&Noise mVp-p 纹波&杂讯 | Vin100Vac 60Hz Full load 输入 100Vac 60Hz 满载 | 100mVp-p Max | 56 | | | | | mVp-p | PASS |
| 5 | Line Regulation 线性调整率 | Vin=100V~240V Io=Rated Current 额定电流 | ±2% | / | | | | | | PASS |
| 6 | Standby Power 待机功耗 | Vin 115Vac 60Hz Io=0 输入 115Vac 60Hz | 0.21W max | 0.10 | | | | | W | PASS |
| 7 | Short circuit test 短路测试 | Vin100Vac 60Hz 输入 100Vac 空载 | No odor smoke fire plastic deformation and excessive heat happen. 无冒烟,起火,外壳变形及 过热现象 | Ok | | | | | | PASS |
| 8 | OCP 过电流保护 | Vin100Vac 60Hz 输入 100Vac 空载 | 8.8A Max | Ok | | | | | A | PASS |
| 9 | Output Voltage 输出电压 | Vin240Vac 50Hz Io=0 输入 240Vac 空载 | 18.05-19.95V | 19.25 | | | | | V | PASS |
| 10 | Output Voltage 输出电压 | Vin240Vac 50Hz Io=Rated Current 输入 240Vac 60Hz 额定电流 | 18.05-19.95V | 18.7 | | | | | V | PASS |
| 11 | Efficiency(Full Load) 效率满载 | Vin230Vac 50Hz 输入 230Vac 50Hz | ≥88% | 88.92 | | | | | % | PASS |
| 12 | Ripple & Noise mVp-p 纹波&杂讯 | Vin240Vac 50Hz Full load 输入 240Vac 50Hz 额定电流 | 100mVp-p Max | 53 | | | | | mVp-p | PASS |
| 13 | Line Regulation 线性调整率 | Vin=100V~240V Io=Rated Current 输入 100V~240V | ±2% | / | | | | | | PASS |
| 14 | Standby Power 待机功耗 | Vin230Vac 50Hz Io=0 输入 230V 50Hz | 0.21W max | 0.13 | | | | | W | PASS |
| 15 | Short circuit test 短路测试 | Vin240Vac 50Hz 输入 240Vac 50Hz | No odor smoke fire plastic deformation and excessive heat happen. 无冒烟,起火,外壳变形及 过热现象 | Ok | | | | | | PASS |
| 16 | OCP 过电流保护 | Vin230Vac 50Hz 输入 230Vac 50Hz | 10.6A Max | Ok | | | | | | PASS |
| 17 | Burn in 老化 | Input:220Vac/50Hz Full Load 4hrs 输入 220Vac/50Hz 满载 4 小时 | | Ok | | | | | | PASS |
| 18 | Drop test 跌落 | Heigh:1m Three*faces(onceon each plane) 高 1 米,6 个面,每面 1 次. | | Ok | | | | | | PASS |

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