

深圳安博检测有限公司
检验报告

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|--------|---|----------|---|
| 样品名称 | 通信用不间断电源 (UPS) | 型号规格 | AAM-3000 |
| 送检单位 | 深圳安耐特电子有限公司 | 商标 |  |
| 生产单位 | 深圳安耐特电子有限公司 | 检验类别 | 委托检验 |
| 样品数量 | 10 | 样品等级、状态 | —/完好 |
| 到样日期 | 2014-10-30 | 原编号或生产日期 | — |
| 检验依据 | YD/T 1095-2008 通信用不间断电源 | | |
| 实验环境条件 | 20±5℃ | | |
| 检验结论 | <p>委托方深圳安耐特电子有限公司委托深圳安博检测有限公司检验 产品: 通信用不间断电源 (UPS) 型号: AAM-3000, 符合YD/T 1095-2008 通信用不间断电源标准检测要求</p> <p style="text-align: right;">签发日期: 2014-11-05</p> | | |
| 备注 | 报告仅对来样负责。 | | |

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深圳安博技术服务有限公司
检验报告

| 序号 | 测试项目 | 单位 | 测试要求 | 测试结论 | 判定 |
|----|----------|-----|--|----------------------------------|----|
| 1 | 外观 | | 机箱镀层牢固, 漆面均匀, 无剥落, 锈蚀和裂痕现象 | 符合 | 合格 |
| | | | 机箱表面平整, 所有标牌、标记、文字符号应清晰、正确、整齐 | 符合 | 合格 |
| 2 | 交流输入电压范围 | Vac | 单相交流电压 $220 \times (1 \pm 30\%)$ | 120 ~288 Vac | 合格 |
| 3 | 交流输入频率范围 | Hz | $50 \times (1 \pm 10\%)$ | 45-55 | 合格 |
| 4 | 输入功率因素 | - | 交流系统的输入功率因数 ≥ 0.9 ; 直流系统的输入功率因数 ≥ 0.99 | 交流 ≥ 0.95 直流 ≥ 0.99 | 合格 |
| 6 | 频率跟踪范围 | - | 50Hz $\pm 4\%$ 可调 | 50Hz $\pm 8\%$ 可调 | 合格 |
| 7 | 频率跟踪速率 | - | $(0.5 \sim 2) \text{ Hz/s}$ | 1 Hz/S | 合格 |
| 8 | 输出电压 | Vac | 220 (正弦波) | 220 Vac | 合格 |
| 9 | 输出电压稳压精度 | - | $\leq \pm 1\%$ | -0.65%, +0.58% | 合格 |

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|----|-------------|-------|--|-------------------------|----|
| 10 | 输出频率及精度 | - | 50Hz±0.1Hz (电池状态) | 50Hz±0.1Hz | 合格 |
| 11 | 输出电压波形失真度 | - | ≤2% (电压、电池均测) | 1.3% | 合格 |
| 12 | 输出功率因数 | - | ≥0.8 | 0.8 | 合格 |
| 13 | 输出电流峰值系数 | - | 3: 1 (Max) | 3: 1 (Max) | 合格 |
| 14 | 效率 | - | ≥80% (总功率<2000VA) ; ≥85% (总功率≥2000VA) | 86.3% | 合格 |
| 15 | 市电与旁路模式转换时间 | ms | <4 | 3.5ms | 合格 |
| 16 | 市电与电池模式转换时间 | ms | 0 | 0 | 合格 |
| 17 | 动态电压瞬变范围 | - | ≤5% | 3.5% | 合格 |
| 18 | 电压瞬变恢复时间 | ms | ≤60 | 53 ms | 合格 |
| 19 | 过载能力 | - | UPS 输入电压、频率为额定值, 输出接阻性负载, 输出功率为额定有功功率的125%时, UPS 正常工作时间≥10min。 | 100%-150% 负载 正常工作 10 分钟 | 合格 |
| 20 | 噪音 | dB(A) | ≤55 | 50 | 合格 |
| 21 | 输出短路保护 | - | 当系统工作在逆变状态时, 输出端短路, 系统应具有自动保护功能, 当故障消除后可恢复工作 | 短路有自动保护功能, 故障消除后手动恢复 | 合格 |

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| 22 | 输出过流保护 | - | 当输出电流超过额定电流时, 应能发出告警; 当输出电流超过过载能力时, 系统应能自动转为旁路供电, 当恢复正常时, 自动转回原工作模式 | 符合 | 合格 |
| 23 | 过温度保护 | - | 系统机内运行温度过高时, 应能自动转为旁路供电, 当恢复正常时, 自动转回原工作模式 | 符合 | 合格 |
| 24 | 输出过/欠压保护 | - | 系统输出电压超过设定过电压值或未达到欠电压值时, 应能自动转为旁路供电, 当恢复正常时, 自动转回原工作模式 | 符合 | 合格 |
| 25 | 蓄电池低电压保护 | - | 当蓄电池端电压下降到内部设定值时, 系统应停止逆变, 改为旁路输出或停止输出 | 停止输出, 且会报警 | 合格 |
| 26 | 输入过/欠压保护 | - | 当输入电压超出允许范围时, 系统将由蓄电池供电, 逆变输出 | 符合 | 合格 |
| 27 | 防雷保护 | - | UPS 耐雷电流等级分类及技术要求应符合 YD/T944-2007 中 4、5 的要求。 | 符合 | 合格 |
| 28 | 告警功能 | - | 市电断电, 输入电压异常、电池低电压, 设备故障, 系统应能产生告警信号 | 有干接点输出功能 | 合格 |
| 29 | 风扇故障告警 | - | 风扇故障停止工作时, 应发出声光告警。 | 符合 | 合格 |
| 30 | 监控功能 | - | 有 RS232 标准接口向外传递告警信息, 有告警信号输出的接口 (干接点), 能远程遥控 UPS 关机以及实时监测通信 | 符合 | 合格 |
| 31 | 市电隔离 | - | 内置市电输入隔离变压器 | 符合 | 合格 |
| 32 | 复电自动恢复功能 | - | 在交流输入停电复电之后, 应能自动恢复正常运行 | 符合 | 合格 |
| 33 | 蓄电池管理功能 | - | 具备对蓄电池进行浮充电压充电和均充电压充电的管理功能, 并能根据蓄电池温度对浮充电压值作温度补偿 | 符合 | 合格 |

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|----|--------|----------|--|-------|----|
| 34 | 外壳防护要求 | - | UPS 保护接地装置与金属外壳的接地螺钉应具有可靠的电气连接, 其连接电阻应不大 0.1 Ω 。 | 0.03 | 合格 |
| 35 | 绝缘电阻 | Ω | 输入电路对地、输入电路对输出电路、输出电路对地的绝缘电阻应 $>2M$ | 20 | 合格 |
| 36 | 绝缘强度 | - | 系统输入端对地, 输入端对输入端应能承受 DC2120V, 输出端对地应能承受 DC710V 不击穿、不飞弧 | 符合 | 合格 |
| 37 | 漏电流 | mA | UPS 的保护地 (PE) 对输入的中性线 (N) 的接触电流应不大于 3.5 mA | 2.7mA | 合格 |
| 38 | 传导骚扰限值 | - | 在 150kHz~30MHz 频段内, 系统电源线上的传导干扰电平应符合 YD/T983 中 5.1 表 2 规定的限值 | 符合 | 合格 |
| 39 | 辐射骚扰限值 | - | 在 30~1000MHz 频段内系统的电磁辐射干扰电压电平应符合 YD/T983 中 5.2 表 4 中规定的限值。 | 符合 | 合格 |
| 40 | 高温工作性能 | - | 45° C 时, 额定负载 2 小时, 能正常工作 | 符合 | 合格 |
| 41 | 低温工作性能 | - | 零下 10° C 时, 额定负载 2 小时, 能正常工作 | 符合 | 合格 |

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附上测试样品照片，如下：

正面视图



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声 明

1. 测试参考文件: YD/T 1095-2008
2. 测试实验室: 深圳安博检测有限公司
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检验报告

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样品接收日期 : 2014-10-30
样品测试日期 : 2014-10-30 到2014-11-05



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