

广州中逸光电子科技有限公司

测试报告

12510 IC

| 产品型号 | SP15-D0512 | | 产品尺寸 | 62*45*23mm | | | | 测试日期 | 2022/3/22 | | 测试人 | 曾德红 | | | | | | | |
|-------------------|------------|------|-------------|------------|--------|------------|---|--------|-----------|-----|---------|-------|-------|-------|----------|--------|-------|--|----|
| 测试设备 | 设备名称 | | 设备型号 | | 设备品牌 | | 测试说明 输入电压为全电压范围，输出为0%-10%-50%-100%负载电流，电源效率为被测电源在各种输入电压及各种输出负载时，输出电流与输出电压的乘积得出该电源的输出功率，然后与输入端功率计显示功率比值即为输出效率 | | | | | | | | | | | | |
| | 输入电源 | | PF9901 | | 远方 | | | | | | | | | | | | | | |
| | AC接触式调压器 | | TDGC500 | | 上海企硕 | | | | | | | | | | | | | | |
| | 电子负载器 | | IT8510 8512 | | 艾德克斯 | | | | | | | | | | | | | | |
| | 数字示波器 | | TBS1102 | | 美国泰克 | | | | | | | | | | | | | | |
| | 数字万用表 | | VC9807A+ | | 胜利 | | | | | | | | | | | | | | |
| | 温度测试仪 | | GM320 | | 深圳标智仪表 | | | | | | | | | | | | | | |
| | 高温箱 | | 202-00S | | 邦西仪器 | | | | | | | | | | | | | | |
| | 低温箱 | | DW-50 | | 沧州昂辰 | | | | | | | | | | | | | | |
| | 多路测试仪 | | TP700 | | 深圳拓普 | | | | | | | | | | | | | | |
| 输入电压 85-264VAC | 输入电流 | 输入功率 | 输出负载 | | | 输出电压 | | 效率 | 纹波 | | 短路保护自恢复 | | 负载调整率 | | 电压调整率±1% | | 电压精度 | | 结论 |
| Vin (VAC) | Lin (A) | (W) | (%) | | | Vout (Vdc) | | 78 (%) | (Vp-p)mV | | | | ±1% | ±5% | ±2% | ±6% | ±2% | ±6% | |
| | | | / | V1 | V2 | V1 | V2 | 双绞线 | V1 | V2 | | | V1 | V2 | V1 | V2 | | | |
| 90V | 0 | 0 | 空载 | | | 4.99 | 11.899 | | 14 | 44 | OK 0W | 0.22% | 0.58% | 0.24% | 0.52% | -0.44% | 0.00% | <input checked="" type="checkbox"/> 符合技术手册要求 <input type="checkbox"/> 不符合技术手册要求 | |
| | 0.040 | 1.96 | 10% | 0.15 | 0.063 | 4.985 | 11.942 | 76.2% | 24 | 4 | | | | | | | | | |
| | 0.164 | 9.31 | 50% | 0.75 | 0.315 | 4.980 | 12.066 | 80.9% | 20 | 658 | | | | | | | | | |
| | 0.326 | 19.3 | 100% | 1.50 | 0.625 | 4.990 | 11.938 | 77.4% | 14 | 52 | | | | | | | | | |
| 115V | 0 | 0 | 空载 | | | 4.99 | 11.907 | | 10 | 64 | OK 0W | | | | | | | <input checked="" type="checkbox"/> 符合技术手册要求 <input type="checkbox"/> 不符合技术手册要求 | |
| | 0.034 | 1.98 | 10% | 0.15 | 0.063 | 4.989 | 11.89 | 75.3% | 20 | 44 | | | | | | | | | |
| | 0.06 | 3.73 | 20% | 0.30 | 0.125 | 4.987 | 11.88 | 79.9% | 16 | 46 | | | | | | | | | |
| | 0.085 | 5.5 | 30% | 0.45 | 0.188 | 4.983 | 11.89 | 81.3% | 14 | 56 | | | | | | | | | |
| | 0.11 | 7.39 | 40% | 0.60 | 0.250 | 4.985 | 11.91 | 80.8% | 12 | 36 | | | | | | | | | |
| | 0.135 | 9.2 | 50% | 0.75 | 0.313 | 4.985 | 11.94 | 81.2% | 10 | 54 | | | | | | | | | |
| | 0.159 | 11 | 60% | 0.90 | 0.375 | 4.986 | 11.97 | 81.6% | 12 | 39 | | | | | | | | | |
| | 0.183 | 12.8 | 70% | 1.05 | 0.438 | 4.983 | 11.98 | 81.8% | 10 | 42 | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|------|------|-------------------------|-------|-------|--------------------------|-------|----|----|-----------------|--|--|--|--|-----------------|--|--|--|--|--|
| | 0.207 | 14.7 | 80% | 1.20 | 0.500 | 4.982 | 12.06 | 81.7% | 20 | 54 | | | | | | | | | | | |
| | 0.234 | 16.7 | 90% | 1.35 | 0.563 | 4.984 | 11.85 | 80.2% | 10 | 64 | | | | | | | | | | | |
| | 0.257 | 18.9 | 100% | 1.50 | 0.625 | 4.978 | 11.97 | 79.1% | 38 | 56 | | | | | | | | | | | |
| 230V | 0.008 | 0.3 | 空载 | | | 4.990 | 11.97 | | 10 | 56 | OK 0.68W | | | | | | | | | | |
| | 0.021 | 2.18 | 10% | 0.15 | 0.063 | 4.989 | 11.95 | 68.6% | 10 | 62 | | | | | | | | | | | |
| | 0.033 | 3.94 | 20% | 0.30 | 0.125 | 4.987 | 11.94 | 75.9% | 8 | 52 | | | | | | | | | | | |
| | 0.045 | 5.66 | 30% | 0.45 | 0.188 | 4.983 | 11.94 | 79.2% | 10 | 58 | | | | | | | | | | | |
| | 0.057 | 7.47 | 40% | 0.60 | 0.250 | 4.985 | 11.93 | 80.0% | 14 | 48 | | | | | | | | | | | |
| | 0.071 | 9.45 | 50% | 0.75 | 0.313 | 4.985 | 11.93 | 79.0% | 12 | 58 | | | | | | | | | | | |
| | 0.082 | 11.1 | 60% | 0.90 | 0.375 | 4.986 | 11.93 | 80.7% | 10 | 52 | | | | | | | | | | | |
| | 0.091 | 12.8 | 70% | 1.05 | 0.438 | 4.983 | 11.93 | 81.7% | 20 | 48 | | | | | | | | | | | |
| | 0.105 | 14.6 | 80% | 1.20 | 0.500 | 4.982 | 11.93 | 81.8% | 18 | 56 | | | | | | | | | | | |
| | 0.118 | 16.6 | 90% | 1.35 | 0.563 | 4.984 | 11.94 | 81.0% | 13 | 48 | | | | | | | | | | | |
| | 0.13 | 18.4 | 100% | 1.50 | 0.625 | 4.978 | 12.00 | 81.3% | 10 | 42 | | | | | | | | | | | |
| 264V | 0.009 | 0.37 | 空载 | | | 4.990 | 11.84 | | 20 | 48 | OK 0.77W | | | | | | | | | | |
| | 0.02 | 2.27 | 10% | 0.15 | 0.063 | 4.990 | 11.89 | 65.7% | 20 | 48 | | | | | | | | | | | |
| | 0.063 | 9.5 | 50% | 0.75 | 0.315 | 4.985 | 11.96 | 79.0% | 20 | 52 | | | | | | | | | | | |
| | 0.116 | 18.6 | 100% | 1.50 | 0.625 | 4.979 | 11.98 | 80.4% | 12 | 52 | | | | | | | | | | | |
| 耐压 | 输入-输出 3KV0.49mA 1min OK | | | 输入-地 1.5KV0.2mA 1min OK | | | 输出-地 0.5KV0.01mA 1min OK | | | | | | | | | | | | | | |
| 产品老化 | 负载: V1:1.5A V2:0.625A | | | 老化时间 2H | | | 老化结果: OK | | | | | | | | | | | | | | |
| 高压老化输出监测 | 300V AC: V1 0.9A V2 0.3A 1H 输出电压正常 效率正常/V1 0.09A V2 0.03A 1H输出电压正常 效率正常 | | | | | | | | | | | | | | | | | | | | |
| 产品温升测试: | 环境温度 | | | | | 环境湿度 | | | | | 额定负载工作1H后产品产品表温 | | | | | 额定负载工作2H后产品产品表温 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

符合技术手册要求
不符合技术手册要求