

# 广州中逸光电子科技有限公司

## 测试报告

型号: AES20-S24

日期: 2021-7-17

输出附加电容: 200UH354V 2365IC

制表: 谭永东

### 测试数据:

| 输入电压 | 输入电流  | 输入功率 | 输出负载 |       | 输出电压  | 效率    | 纹波 | 短路启动 | 过流点    | VCC电压 | 负载调整率 | 电压调整率 | 电压精度  | 结果                                                                                 |
|------|-------|------|------|-------|-------|-------|----|------|--------|-------|-------|-------|-------|------------------------------------------------------------------------------------|
| 90V  |       |      | 空载   |       | 24.1  |       |    | OK   | 1A     | 11.2  |       |       |       | <input checked="" type="checkbox"/> 符合技术手册要求<br><input type="checkbox"/> 不符合技术手册要求 |
|      | 0.051 | 2.42 | 10%  | 0.084 | 24.23 | 84.1% | 28 |      |        | 11.86 |       |       |       |                                                                                    |
|      | 0.093 | 4.72 | 20%  | 0.168 | 24.23 | 86.2% | 32 |      |        |       |       |       |       |                                                                                    |
|      | 0.133 | 7.02 | 30%  | 0.252 | 24.23 | 87.0% | 40 |      |        |       |       |       |       |                                                                                    |
|      | 0.173 | 9.35 | 40%  | 0.336 | 24.23 | 87.1% | 36 |      |        |       |       |       |       |                                                                                    |
|      | 0.213 | 11.6 | 50%  | 0.420 | 24.23 | 87.7% | 36 |      |        | 12    |       |       |       |                                                                                    |
|      | 0.252 | 14   | 60%  | 0.504 | 24.23 | 87.2% | 28 |      |        |       |       |       |       |                                                                                    |
|      | 0.293 | 16.4 | 70%  | 0.588 | 24.23 | 86.9% | 32 |      |        |       |       |       |       |                                                                                    |
|      | 0.334 | 18.7 | 80%  | 0.672 | 24.23 | 87.1% | 28 |      |        |       |       |       |       |                                                                                    |
|      | 0.376 | 21.1 | 90%  | 0.756 | 24.23 | 86.8% | 36 |      |        |       |       |       |       |                                                                                    |
|      | 0.415 | 23.3 | 100% | 0.840 | 24.22 | 87.3% | 36 |      |        | 12.1  |       |       |       |                                                                                    |
| 115V |       |      | 空载   |       | 24.2  |       |    | OK   | 1.095A | 11.31 | 0.00% | 0.04% | 0.96% |                                                                                    |
|      | 0.043 | 2.45 | 10%  | 0.084 | 24.23 | 83.1% | 32 |      |        | 11.86 |       |       |       |                                                                                    |
|      | 0.076 | 4.7  | 20%  | 0.168 | 24.23 | 86.6% | 36 |      |        |       |       |       |       |                                                                                    |
|      | 0.108 | 7    | 30%  | 0.252 | 24.23 | 87.2% | 40 |      |        |       |       |       |       |                                                                                    |
|      | 0.14  | 9.3  | 40%  | 0.336 | 24.23 | 87.5% | 36 |      |        |       |       |       |       |                                                                                    |
|      | 0.172 | 11.6 | 50%  | 0.420 | 24.23 | 87.7% | 48 |      |        | 12.05 |       |       |       |                                                                                    |
|      | 0.203 | 13.8 | 60%  | 0.504 | 24.23 | 88.5% | 28 |      |        |       |       |       |       |                                                                                    |
|      | 0.234 | 16.2 | 70%  | 0.588 | 24.23 | 87.9% | 32 |      |        |       |       |       |       |                                                                                    |
|      | 0.264 | 18.5 | 80%  | 0.672 | 24.23 | 88.0% | 28 |      |        |       |       |       |       |                                                                                    |
|      | 0.296 | 20.7 | 90%  | 0.756 | 24.23 | 88.5% | 48 |      |        |       |       |       |       |                                                                                    |
|      | 0.323 | 23   | 100% | 0.840 | 24.23 | 88.5% | 40 |      |        | 12.2  |       |       |       |                                                                                    |
|      |       |      |      | 空载    |       | 24.23 |    |      |        |       |       |       |       |                                                                                    |

|                |                   |      |       |             |                     |       |                   |        |       |                 |  |  |  |       |
|----------------|-------------------|------|-------|-------------|---------------------|-------|-------------------|--------|-------|-----------------|--|--|--|-------|
| 230V           | 0.029             | 2.58 | 10%   | 0.084       | 24.23               | 78.9% | 24                | OK     | 0.96A | 11.81           |  |  |  |       |
|                | 0.043             | 4.85 | 20%   | 0.168       | 24.23               | 83.9% | 48                |        |       |                 |  |  |  |       |
|                | 0.058             | 7.18 | 30%   | 0.252       | 24.23               | 85.0% | 20                |        |       |                 |  |  |  |       |
|                | 0.074             | 9.5  | 40%   | 0.336       | 24.23               | 85.7% | 24                |        |       |                 |  |  |  |       |
|                | 0.089             | 11.8 | 50%   | 0.420       | 24.23               | 86.2% | 28                |        |       |                 |  |  |  |       |
|                | 0.104             | 14.1 | 60%   | 0.504       | 24.23               | 86.6% | 28                |        |       |                 |  |  |  |       |
|                | 0.119             | 16.4 | 70%   | 0.588       | 24.23               | 86.9% | 32                |        |       |                 |  |  |  |       |
|                | 0.133             | 18.6 | 80%   | 0.672       | 24.23               | 87.5% | 32                |        |       |                 |  |  |  |       |
|                | 0.149             | 21.1 | 90%   | 0.756       | 24.23               | 86.8% | 28                |        |       |                 |  |  |  |       |
|                | 0.161             | 23   | 100%  | 0.840       | 24.23               | 88.5% | 36                |        |       |                 |  |  |  | 12.23 |
| 264V           |                   |      | 空载    |             | 24.23               |       |                   | OK     | 0.98A | 11.3            |  |  |  |       |
|                | 0.03              | 2.66 | 10%   | 0.084       | 24.23               | 76.5% | 36                |        |       |                 |  |  |  | 11.8  |
|                | 0.041             | 4.92 | 20%   | 0.168       | 24.23               | 82.7% | 22                |        |       |                 |  |  |  |       |
|                | 0.054             | 7.26 | 30%   | 0.252       | 24.23               | 84.1% | 32                |        |       |                 |  |  |  |       |
|                | 0.068             | 9.63 | 40%   | 0.336       | 24.23               | 84.5% | 24                |        |       |                 |  |  |  |       |
|                | 0.081             | 11.9 | 50%   | 0.420       | 24.23               | 85.5% | 32                |        |       |                 |  |  |  | 12    |
|                | 0.094             | 14.2 | 60%   | 0.504       | 24.23               | 86.0% | 36                |        |       |                 |  |  |  |       |
|                | 0.107             | 16.5 | 70%   | 0.588       | 24.23               | 86.3% | 24                |        |       |                 |  |  |  |       |
|                | 0.119             | 18.7 | 80%   | 0.672       | 24.23               | 87.1% | 28                |        |       |                 |  |  |  |       |
|                | 0.132             | 21.1 | 90%   | 0.756       | 24.23               | 86.8% | 36                |        |       |                 |  |  |  |       |
| 0.144          | 23.20             | 100% | 0.840 | 24.23       | 87.7%               | 25    |                   | 12.2   |       |                 |  |  |  |       |
| <b>耐压</b>      | 输入-输出 3kvac5mA OK |      |       | 输入-地 /      |                     |       |                   | 输出-地 / |       |                 |  |  |  |       |
| <b>产品老化</b>    | 负载: 满载 (成品)       |      |       | 老化结果: 2H OK |                     |       |                   |        |       |                 |  |  |  |       |
| <b>产品温升测试:</b> | 环境温度              |      |       | 环境湿度        |                     |       | 额定负载工作0.5H后产品产品表温 |        |       | 额定负载工作1H后产品产品表温 |  |  |  |       |
|                | 22℃               |      |       | 50%         |                     |       | 53                |        |       | 60              |  |  |  |       |
| <b>产品高低温试验</b> | 输入电压              |      | 高温    | 湿度          | 负载10%-100% 并启动5000次 |       |                   |        |       |                 |  |  |  |       |
|                | 90V               |      | 75    | 95%         | OK                  |       |                   |        |       |                 |  |  |  |       |
|                | 220V              |      |       |             | OK                  |       |                   |        |       |                 |  |  |  |       |
|                | 300V              |      |       |             | OK                  |       |                   |        |       |                 |  |  |  |       |
|                | 输入电压              |      | 低温    | 湿度          | 负载10%-100% 并启动5000次 |       |                   |        |       |                 |  |  |  |       |
|                | 90V               |      | -40   | /           | OK                  |       |                   |        |       |                 |  |  |  |       |
|                | 220V              |      |       |             | OK                  |       |                   |        |       |                 |  |  |  |       |
| 300V           |                   | OK   |       |             |                     |       |                   |        |       |                 |  |  |  |       |