

证书

测算标准 **ISO 14064-1:2018**

证书登记号码 **CF 50586606 0001**

报告号码 **70339304 001**

证书持有者: **上海中航光电子有限公司**
中国上海市闵行区华宁路 3388 号 201108

核查场址: **上海中航光电子有限公司**
中国上海市闵行区华宁路 3388 号 201108

核查方法: 核查方: 莱茵检测认证服务(中国)有限公司
- 过程: 文件审查、访谈、现场核查与重新计算
- 核查标准: ISO 14064-3:2019

核查范围: 基于取得的信息进行评估之结论:
- 方案: 自愿性温室气体方案
- 组织边界: 营运控制权法
- 保证等级: 合理保证
- 实质性: 5%
- 全球暖化潜势(GWP): IPCC 2021
- 基准年为: 2020 (2020.01.01~2020.12.31)
- 核查年为: 2022 (2022.01.01~2022.12.31)
- 碳排放总量为 132382.82 吨二氧化碳当量(tCO₂e)
- 类别一 直接排放为 48998.30 tCO₂e
- 类别二 间接 能源排放为 82947.98 tCO₂e
- 类别三 间接 运输排放为 47.79 tCO₂e
- 类别四 间接 组织使用产品排放为 388.75 tCO₂e
- 类别五 间接 与使用组织产品有关排放为未量化
- 类别六 间接 其它排放为未量化
- 数据与资讯:
- 历史性资料: 类别一 / 类别二
- 历史性资料及情境模型: 类别三 / 类别四
- 电力系数引用 2022 年《上海市生态环境局关于调整本市温室气体排放核算指南相关排放因子数值的通知》中上海市电力排放因子缺省值进行测算

有效性: 本证书仅对核查年度进行核查, 非对管理体系进行认证

2023-06-21



莱茵检测认证服务(中国)有限公司
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Certificate

Inventory Standard **ISO 14064-1:2018**

Certificate Registr. No. **CF 50586606 0001**

Report No. **70339304 001**

Certificate Holder: **Shanghai AVIC Optoelectronics Co.,Ltd.**
No.3388 Huaning Road, Minhang District, 201108 Shanghai
P.R. China

Verification Site: **Shanghai AVIC Optoelectronics Co.,Ltd.**
No.3388 Huaning Road, Minhang District, 201108 Shanghai
P.R. China

Verification Method: Verification Body: TÜV Rheinland (China) Ltd.
- Process: Document review, interview, site visit and recalculation
- Verification Standard: ISO 14064-3:2019

Verification Scope: Based on the information we have received and evaluated that:

- Programme: Voluntary GHG scheme
- Organizational Boundary: Operational Control
- Level of Assurance: Reasonable
- Materiality: 5%
- Global warming potential (GWP): IPCC 2021
- Base year: 2020 (2020.01.01~2020.12.31)
- Inventory year: 2022 (2022.01.01~2022.12.31)
- The total carbon emission is 132382.82 tonnes CO₂ equivalent (tCO₂e)
 - Category 1 Direct emission is 48998.30 tCO₂e
 - Category 2 Indirect imported energy emission is 82947.98 tCO₂e
 - Category 3 Indirect transportation emission is 47.79 tCO₂e
 - Category 4 Indirect products used by organization emission is 388.75 tCO₂e
 - Category 5 Indirect associated with the use of products from the organization emission is not quantified
 - Category 6 Indirect other sources emission is not quantified
- Data and information
 - Historical in nature: Category 1 / 2
 - Historical in nature with scenario models: Category 3 / 4
- The inventory uses Shanghai electricity emissions factor which is published in <Notice of Shanghai Municipal Bureau of Ecology and Environment on Adjusting the Values of Emission Factors Related to the Greenhouse Gas Emission Accounting Guidelines> in 2022 for calculation.

Validity: This certificate only reviewed the emissions data of inventory year, this certificate is not for the management systems certification.

2023-06-21



TÜV Rheinland (China) Ltd.

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