**Test Report for ESD Checking**

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| --- | --- | --- | --- |
| Customer: | GE | Model: | 9738-001 |
| Sample Phase: | Proto A | Sample SN: | M2423-00007 |
| Hardware Version: | A4-1 | Software Version: | A3 |
| Test Group: | EE Team | Test Reference: | IEC61000-4-2 and  Inventus Power TC internal test requirement |
| Test Type: | Electrostatic Discharge Test and Electrostatic Charge Test | Test Environment: | 24.6°C/ 64%RH |
| Specification Limits: | The EUT must pass the ESD test: Contact: ±6kV ±8kV; Air: ±8kV ±10kV; | | |
| Evaluation of test result: | A. Normal performance within limits specified by the manufacturer, requestor, or purchaser.  B. Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.  C. Temporary loss of function or degradation of performance, the correction of which requires operator intervention.  D. Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data. | | |
| Test Location: | Inventus Power, Inc. - Technical Center  5th Floor Western of Changhua Building, No.921 Xingye Road, Nancun Town, Panyu District, Guangzhou City, China, Postcode 511442 | | |
| Test Date: | 2025-08-15 | | |
| Tested by: | Checked by: | Approved by: | Test Result |
| Stars Han | Loring Luo | Kylin | **Pass** |

1. **Test Procedure**
   1. Check all the functions of prototype to confirm it was normal. Then select the test points and the test level after open the Test Device.
   2. Increased the test voltage from the minimum to the selected test level and the test shall be performed with single discharges. On pre-selected points at least 10 single discharges at each polarity (+/-).
   3. Check the functions of prototype after each point was tested. Then continue if it was normal until all the points have been tested. Otherwise it is failed.
2. **Test Equipment Used**

SOSIN ESD 30K ESD Simulator (Instr. Code: 177), IEC61000-4-2 compliant test table/station.

1. **Test Setup / Block Diagram**

图示

描述已自动生成

1. **Test Result**

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| --- | --- | --- | --- | --- | --- | --- |
| **Under Charge Condition** | | | | | | |
| **Test item** | **Type of Discharge** | **ESD Voltage (KV)** | **Application Points** | **Performance Criteria** | **Verdict**  **(PASS / FAIL)** | **Remark** |
| 1 | Contact | +/- 6 | All inaccessible metal surfaces. | A | PASS | -- |
| 2 | Contact | +/- 8 | All inaccessible metal surfaces. | A | PASS | -- |
| 3 | Air | +/- 8 | All inaccessible metal surfaces. | A | PASS | -- |
| 4 | Air | +/- 10 | All inaccessible metal surfaces. | A | PASS | -- |
| Comment:  ±8kV and ±10kV are both the extra internal requirements. | | | | | | |

图片包含 室内, 桌子, 木, 小

AI 生成的内容可能不正确。

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Under Discharge Condition(2A Load)** | | | | | | |
| **Test item** | **Type of Discharge** | **ESD Voltage (KV)** | **Application Points** | **Performance Criteria** | **Verdict**  **(PASS / FAIL)** | **Remark** |
| 1 | Contact | +/- 6 | All accessible metal surfaces | A | PASS | -- |
| 2 | Contact | +/- 8 | All accessible metal surfaces | A | PASS | -- |
| 3 | Air | +/- 8 | All accessible metal surfaces | A | PASS | -- |
| 4 | Air | +/- 10 | All accessible metal surfaces | A | PASS | -- |
| Comment:  ±8kV and ±10kV are both the extra internal requirements. | | | | | | |

图片包含 室内, 桌子, 小, 房间

AI 生成的内容可能不正确。

1. **Conclusion**

**PASS**