



MET Laboratories, Inc. Safety Certification - EMC - Telecom- Environmental Simulation

CERTIFICATE OF COMPLIANCE

Certification Number : ESL39804B-C810G

Company: Getac Inc.

Equipment Tested: Getac V110 Rugged Notebook Computer

Test Standard: MIL-STD-810G

Testing Completed: 10/14/2013

Details: This is to certify that the following environmental tests have been performed on the **Getac V110 Rugged Notebook Computer** and found to be in compliance with the requirements and procedures of **MIL-STD-810G** detailed in the following summary table.

No evidence of functional failure was observed during testing.

All calibrated Test equipment utilized during testing is maintained in a current state of calibration per the requirements of ISO/IEC 17025:2005.

For further test details please reference the MET Laboratories, Inc. test report, ESL39804B-MIL.

Allan Kimani
Manager, Environmental Laboratory
MET Laboratories, Inc.

10/15/13

Date

Thierry Ngassa
Project Engineer, Environmental Laboratory
MET Laboratories, Inc.

10/15/13

Date

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The table below is to show that the following environmental testing was performed on the **Getac V110 Rugged Notebook Computer** and is in compliance with the requirements of MIL-STD-810G below;

Test	Procedure Specification	MIL-STD-810G Reference	Pass/Fail
Low Pressure (Altitude) - Storage/Air Transport	Non-operating: 40,000ft (18.8kPa) with altitude change rate 2,000 ft/min.	Method 500.5 Procedure I	Pass
Low Pressure (Altitude) - Operation/Air Carriage	Operating: 15,000ft (57.2kPa) with altitude change rate 2,000 ft/min.	Method 500.5 Procedure II	Pass
High Temperature – Storage	Seven 24 hour cycles of 33-71°C (91– 160°F) (Non-operating)	Method 501.5 Procedure I	Pass
High Temperature – Operation	72 hours constant temperature exposure 60°C (140°F) (Operating)	Method 501.5 Procedure II	Pass
High Temperature – High Temperature Tactical-Stand by to Operation	High storage (non-operating) to high operating (test for operation) Test results for battery operation	Method 501.5 Procedure III	Pass
Low Temperature – Storage	72 hours constant temperature exposure -40°C (-40°F)	Method 502.5 Procedure I	Pass
Low Temperature – Operation	72 hours constant temperature exposure -21°C (-6°F)	Method 502.5 Procedure II	Pass
Low Temperature - Operation	72 hours constant temperature exposure -31°C (-24°F), AC Mode, AC adaptor outside of chamber	Method 502.5 Procedure II	Pass
Temperature Shock	Multi-cycle shocks from constant extreme temperature 71°C (160°F) to -40°C (-40°F) temperature shock non-operating, 3 cycles (low to high = 1 cycle), total 6 hours	Method 503.5 Procedure I-C	Pass
Rain – Rain and Blowing Rain	5.8 in/hr rain, 70 mph wind, 30 min per surface (Total 6 surfaces), operating mode	Method 506.5 Procedure I	Pass
Humidity – Aggravated Operational	10 days per Figure 507.5-7, Ten 24 hour temperature cycles between 30°C (86°F) and 60°C (140°F) with relative humidity maintained at 95% RH operating mode	Method 507.5 Procedure II	Pass
Humidity – Aggravated Non-operational	10 days per Figure 507.5-7, Ten 24 hour temperature cycles between 30°C (86°F) and 60°C (140°F) with relative humidity maintained at 95% Non-operating mode	Method 507.5 Procedure II	Pass
Sand and Dust – Blowing Dust	Dust resistance using Silica flour with 6 hours at 23°C and an additional 6 hours at 60°C (140°F)	Method 510.5 Procedure I	Pass
Sand and Dust – Blowing Sand	Blowing sand temperature of 60°C (140°F) Sand concentration of 2.2+0.5g/m ³	Method 510.5 Procedure II	Pass
Explosive Atmosphere – Operation in Explosive Atmosphere	Operational Altitude 20,000 Feet, Temperature 60°C (140°F)	Method 511.5 Procedure I	Pass
Vibration – General Vibration	Under Figures 514.6C-1 common carrier for operating (1 hour/Axis)	Method 514.6 C-1 Procedure I, Category 4	Pass
Vibration – General Vibration	Figure 514.6 E-1 General min. integrity exposure (1 hour/Axis)	Method 514.6 Procedure I, Category 24	Pass
Shock – Functional Shock	Ground Equipment, 40g, 11 ms, saw tooth, Operating	Method 516.6 Procedure I	Pass
Shock – Functional Shock	Crash Hazard, 75g, 8-13 ms, 80 Hz Cross-Over Frequency, Operating	Method 516.6 Procedure I	Pass
Shock – Transit Drop	All drops performed on one unit: 26 total drops from 36 in height, free drop onto 2 in of plywood. 26 total drops from 48 in height, free drop onto 2 in of plywood. 26 total drops from 72 in height, free drop onto 2 in of plywood.	Method 516.6 Procedure IV	Pass
Freeze/Thaw	Rapid Temperature change for 3 cycles	Method 524 Procedure III	Pass

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