



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GREEN MOUNTAIN ELECTROMAGNETICS, INC.

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ELECTRICAL (EMC)

Valid to: November 30, 2021

Certificate Number: 0898.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on commercial, residential, light-industrial, industrial, scientific, medical (ISM), information-technology (ITE), measurement, control, laboratory, marine, automatic-identification-system (AIS), short-range-device (SRD) and similar equipment:

Test Technology:

Test Method(s)²:

EMC Generic

EN 61000-6-1; EN 61000-6-2;
EN 61000-6-3; EN 61000-6-4

EMC Specific

EN 61326-1; EN 61326-2-3; EN 61326-2-6;
EN 60601-1-2; EN 55035;
EN 301 489-1; KN 35; CISPR 35

Emissions

Radiated and Conducted
Emissions

(3m and 10m sites, up to 18 GHz)

CFR 47, FCC Part 15 B; ANSI C63.4 2014; CISPR 32;
EN 55032; CISPR 11; EN 55011;
IEC 60945, Sections 9.2 & 9.3; KN 32

Harmonics/Flicker

EN/IEC 61000-3-2;
EN/IEC 61000-3-3

Immunity

Electrostatic Discharge (ESD)

EN/IEC 61000-4-2; IEC 60945, Section 10.9

Radiated Immunity

EN/IEC 61000-4-3;
EN/IEC 61000-4-20;
IEC 60945, Section 10.4

Electrical Fast Transient

EN/IEC 61000-4-4; IEC 60945, Section 10.5

Surge Immunity

EN/IEC 61000-4-5; IEC 60945, Section 10.6

Test Technology:**Test Method(s)²:*****Immunity (Cont'd)***

Conducted Immunity	EN/IEC 61000-4-6; IEC 60945, Section 10.3
Magnetic Field Immunity	EN/IEC 61000-4-8
Voltage Dips, Interrupts and Variations	EN/IEC 61000-4-11; IEC 60945, Sections 10.7 & 10.8

Product Safety

Insulation Resistance	EN/IEC 60204, Section 18.3
Dielectric Strength	EN/IEC 60204, Section 18.4; EN/IEC 61010-1, Section 6.8; IEC 62368-1
Electrical Bonding	EN/IEC 60204, Section 18.2; EN/IEC 61010-1, Section 6.5.1.3; IEC 62368-1
Temperature Rise	EN/IEC 61010-1, Section 10.1; IEC 62368-1
Input Current	EN/IEC 61010-1, Section 5.1; IEC 62368-1
Drop Test	EN/IEC 61010-1, Section 8.2
Marking Durability	EN/IEC 61010-1, Section 5.3; IEC 62368-1
Fault Condition	EN/IEC 61010-1, Section 4.4; IEC 62368-1
Touch/PE Current	IEC 62368-1

Environmental

Cold	IEC 60068-2-1; IEC 60945, Section 8.3
Dry Heat	IEC 60068-2-2; IEC 60945, Section 8.2
Heat with Humidity	IEC 60068-2-30; IEC 60945, Section 8.4

Test Technology:

Test Method(s)²:

Radio Physical Tests

SRD	EN 300 220-1; EN 300 220-2; EN 300 440
AIS	IEC 61993-2, Section 15; IEC 62320-1, Sections 9 & 11; IEC 62320-2, Section 7; IEC 62287-1, Sections 9 & 11; CFR 47, FCC Part 80 and 87 (using ANSI/TIA-603-D) (up to 18 GHz)

Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1¹:

Rule Subpart/Technology	Test Method	Maximum Frequency
Unintentional Radiators Part 15B	ANSI C63.4:2014	18000 MHz
Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) Part 80, Part 87	ANSI/TIA-603-D	18000 MHz

¹Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.

²When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.



Accredited Laboratory

A2LA has accredited

GREEN MOUNTAIN ELECTROMAGNETICS, INC.

Middlebury, VT

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 29th day of January 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0898.01
Valid to November 30, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.