



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRIALON CORPORATION
Indiana Testing and Validation Center
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ELECTRICAL

Valid To: September 30, 2020

Certificate Number: 1123.06

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electronics testing:

Parameters: *	Range:
Voltage	
AC – Measure	100 μ V to 100 V, (1 to 500) Hz
	10 μ V to 1 kV, 1 Hz to 2 MHz
AC – Generate	1 mV to 10 V, 1 Hz to 1.3 MHz
DC – Measure	1 μ V to 1000 V
DC – Generate	1 μ V to 3,000 V
Current	
AC/DC Current Measure	10 μ A to 600 A
DC – Generate	10 μ A to 600 A
Resistance Measure	
Measure	100 μ ohms to 1.6 x 10 ⁹ ohms
Generate	100 $\mu\Omega$ to 1.6 x 10 ¹⁰ Ω
Dielectric Testing	
AC	(100 to 4,000) V
DC	(100 to 1,100) V
Frequency	
Measure	1 Hz to 200 MHz
Generate	1 Hz to 80 MHz
Capacitance	100 pF to 10 μ F
Resistivity	1 x 10 ⁶ Ω to 1 x 10 ¹⁰ Ω

<p><u>Electrical Tests Based on GMW 3172:</u></p> <ul style="list-style-type: none"> - Jump Start - Reverse Polarity - Over Voltage - State Change Waveform Characterization - Ground Path Inductance Sensitivity - Parasitic Current - Power Supply Interruptions - Battery Voltage Dropout - Sinusoidal Superimposed Voltage - Pulsed Superimposed Voltage - Intermittent Short Circuit to Battery/Ground - Continuous Short Circuit to Battery/Ground - Multiple Power and Multiple Ground Short Circuit Including Pass Through - Open Circuit Single Line - Open Circuit Multiple Lines - Ground Offset - Power Offset - Overload – All Circuits - Overload – Fuse Protected Circuits - Insulation Resistance - Crank Pulse Capability and Durability - Switched Battery Line 	<p>GMW 3172 (2008, 2010, 2012, 2015, 2018)</p> <p>*Also using customer-specified methods related to the types of tests listed, and within the Parameters above.</p>
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Using customer specific test methods utilizing any combination of test equipment parameters and ranges listed above as well as the following tests and standards:

<u>Test Name</u>	<u>Test Method</u>
Dielectric Withstanding Voltage	MIL-STD-202G, Method 301
Insulation Resistance	MIL-STD-202G, Method 302
DC Resistance	MIL-STD-202G, Method 303
Resistance Temperature Characteristic (up to 200° C)	MIL-STD-202G, Method 304
Dry Circuit Resistance	USCAR-2
Voltage Drop	USCAR-2
Insulation Resistance	USCAR-2

On the following types of materials or products: Consumer based, Automotive Components; Electrical Devices; Circuit Boards; and Electrical Components



Accredited Laboratory

A2LA has accredited

TRIALON CORPORATION

Kokomo, IN

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 26th day of July 2018.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1123.06
Valid to September 30, 2020
Revised August 24, 2020

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