

# APPLICATION FOR CERTIFICATION

## 2027 MODEL YEAR

Durability Group:	VGMXEEVNN002
Test Group:	VGMXJ00.0017
Test Group Description:	Battery Electric Vehicle
Applicable Standards:	California CAR and TRUCK BIN0/ZEV
Carlines:	Battery Electric Vehicle Chevrolet BLAZER EV AWD Cadillac CELESTIQ Cadillac LYRIQ AWD Cadillac LYRIQ AWD V SERIES Cadillac OPTIQ AWD Cadillac OPTIQ AWD V SERIES Cadillac VISTIQ
Vehicles Tested:	ER3P6TMV5521

# **TABLE OF CONTENTS**

## **Part 1**

(Included in Initial Application)

Section 86.1844(d)(1)	Correspondence and Communications (Refer to Common Section)
Section 86.1844(d)(2)	Durability Group Description (Refer to Common Section)
Section 86.1844(d)(3)	Evaporative/Refueling Family Description (Refer to Common Section)
Section 86.1844(d)(4)	Durability Procedure Description (Refer to Common Section)
Section 86.1844(d)(5)	Test Group Description (Refer to Common Section)
Section 86.1844(d)(6)	Test Vehicle Description
Section 86.1844(d)(7)	Emission Standards and Test Results
Section 86.1844(d)(8)	Compliance Statements (Refer to Common Section)
Section 86.1844(d)(9)	OBD System Description (Refer to Common Section)
Section 86.1844(d)(10)	Description of Flexible and Alternative-Fueled Vehicles
Section 86.1844(d)(11)	AECD Description (Also Included in Common Section)
Section 86.1844(d)(12)	Description of Vehicles Covered by Certificate and Test Parameters
Section 86.1844(d)(13)	Projected Sales
Section 86.1844(d)(14)	Request Letter(s)
Section 86.1844(b)	Additional Information
Section 18.1817-05	Complete Heavy-Duty Chassis-Certified Vehicle Average, Trading and Banking Program (Refer to Common Section)
Section 18.1037.205(c)	Air Conditioning System Leakage (Heavy-Duty Vehicles Only)

## **Part 2**

(Included in Final Application)

Section 86.1844(e)(1)	Part Numbers
Section 86.1844(e)(2)	Basic Calibration Information
Section 86.1844(e)(3)	Description of Vehicles Covered by Certificate (Refer to Section 86.1844(d)(12))
Section 86.1844(e)(4)	Final Sales (Refer to Common Section)
Section 86.1844(e)(5)	Service Information (Refer to Request Letter, 86.1844(d)(14))
Section 86.1844(e)(6)	Gasoline to Ethanol Emissions Conversion Ratio (Flex Fuel Only)

# TEST VEHICLE DESCRIPTION

## Data Vehicle Selection Information

Test Group	VGMXJ00.0017
Rated Motor Power	Front Drive Motor: 155 kW Rear Drive Motor: 220 kW
Battery Size (Module Count)	10
Engine Code	15
J1634 Testing Methodology Speed CSCm Time	Multi-Cycle Test 65 mph 170 minutes
Carline Name	Cadillac OPTIQ AWD V-Series
Transmission Type / Code	A1 (Electric Motor) / 1
Test Weight Class (LVW )	6000 lbs
Gross Vehicle Weight Rating	6724 lbs
Roadload Horsepower	17.1
Final Drive	Front: 9.86 Rear: 10.49
N/V Ratio – rpm/mph	122.6
Tire Size	275/40R21
Vehicle / EPA Config No. / GM Config No.	ER3P6TMV5521 / 00 / 00

Note: For complete vehicle information, see vehicle information submitted to EPA in EV-CIS database.

Data Vehicle Selection Justification – This vehicle represents the worst-case configuration for range for this test group.

## Engine Code Information

	1	2	3
<b>Base Engine Code</b>			
<b>EC Derivatives</b>			
<b>Test Group</b>	VGMXJ00.0017	VGMXJ00.0017	VGMXJ00.0017
<b>Durability Group</b>	VGMXEEVNN002	VGMXEEVNN002	VGMXEEVNN002
<b>Engine RPO</b>	X0E	X0E	X0E
<b>Disp, liters</b>	0.0	0.0	0.0
<b>Trans RPO</b>	P9C	P9C	P9C
<b>Trans Type</b>	A1	A1	A1
<b>Product Code</b>	--	--	--
<b>Emission RPO</b>	NF6	NF6	NF6
<b>Emissions Category</b>	ZEV	ZEV	ZEV
<b>Vehicle Type</b>	CAR	CAR	CAR
<b>Regulatory Agencies</b>	C	C	C
<b>Sales Area</b>	FA/CA	FA/CA	FA/CA
<b>Design Altitude</b>	Both	Both	Both
<b>A/C Equipped</b>	Yes	Yes	Yes
<b>Driver Select Device</b>	OPD: On/Off/High, Sport, Velocity, Relaxed, Snow	OPD: On/Off/High, Sport, Velocity, Relaxed, Snow	OPD: On/Off/High, Sport, Velocity, Relaxed, Snow
<b>Police Only</b>	No	No	No
<b>Horsepower @ RPM</b>	615	615	615
<b>Torque @ RPM</b>	NA	NA	NA
<b>Emission Ctrl Sys</b>	N/A	N/A	N/A
<b>TapUp/TapDown</b>	No	No	No
<b>Active Fuel Management Description</b>	Non AFM Lyriq V/19k.2 W Charger	Non AFM Lyriq V/11.5 kW Charger	Non AFM Lyriq V/22kW Charger

## Engine Code Information

	4	5	7
<b>Base Engine Code</b>			
<b>EC Derivatives</b>			
<b>Test Group</b>	VGMXJ00.0017	VGMXJ00.0017	VGMXJ00.0017
<b>Durability Group</b>	VGMXEEVNN002	VGMXEEVNN002	VGMXEEVNN002
<b>Engine RPO</b>	X0E	X0E	X0E
<b>Disp, liters</b>	0.0	0.0	0.0
<b>Trans RPO</b>	P9C	P9C	P9C
<b>Trans Type</b>	A1	A1	A1
<b>Product Code</b>	--	--	--
<b>Emission RPO</b>	NF6	NF6	NF6
<b>Emissions Category</b>	ZEV	ZEV	ZEV
<b>Vehicle Type</b>	TRUCK	TRUCK	CAR
<b>Regulatory Agencies</b>	C	C	C
<b>Sales Area</b>	FA/CA	FA/CA	FA/CA
<b>Design Altitude</b>	Both	Both	Both
<b>A/C Equipped</b>	Yes	Yes	Yes
<b>Driver Select Device</b>	OPD: On/Off/High, Sport, Velocity, Relaxed, Snow	OPD: On/Off/High, Sport, Velocity, Relaxed, Snow	My Mode, Tour, Velocity, Snow/Ice, OPD: High, Low, Off
<b>Police Only</b>	No	No	No
<b>Horsepower @ RPM</b>	615	615	515
<b>Torque @ RPM</b>	NA	NA	NA
<b>Emission Ctrl Sys</b>	N/A	N/A	N/A
<b>TapUp/TapDown</b>	No	No	No
<b>Active Fuel Management Description</b>	Non AFM Vistiq 19.2 kW Charger	Non AFM Vistiq 11.5 kW Charger	Non AFM Blazer Police Pursuit/19.2 kW CHARGER

## Engine Code Information

	8	9	10
<b>Base Engine Code</b>			
<b>EC Derivatives</b>			
<b>Test Group</b>	VGMXJ00.0017	VGMXJ00.0017	VGMXJ00.0017
<b>Durability Group</b>	VGMXEEVNN002	VGMXEEVNN002	VGMXEEVNN002
<b>Engine RPO</b>	X0E	X0E	X0E
<b>Disp, liters</b>	0.0	0.0	0.0
<b>Trans RPO</b>	P9C	P9C	P9C
<b>Trans Type</b>	A1	A1	A1
<b>Product Code</b>	--	--	--
<b>Emission RPO</b>	NF6	NF6	NF6
<b>Emissions Category</b>	ZEV	ZEV	ZEV
<b>Vehicle Type</b>	CAR	TRUCK	TRUCK
<b>Regulatory Agencies</b>	C	C	C
<b>Sales Area</b>	FA/CA	FA/CA	FA/CA
<b>Design Altitude</b>	Both	Both	Both
<b>A/C Equipped</b>	Yes	Yes	Yes
<b>Driver Select Device</b>	My Mode, Tour, Velocity, Snow/Ice, OPD: High, Low, Off, WOW	OPD: On/Off/High, Sport, Relaxed, Snow	OPD: On/Off/High, Sport, Relaxed, Snow
<b>Police Only</b>	No	No	No
<b>Horsepower @ RPM</b>	595	615	615
<b>Torque @ RPM</b>	NA	NA	NA
<b>Emission Ctrl Sys</b>	N/A	N/A	N/A
<b>TapUp/TapDown</b>	No	No	No
<b>Active Fuel Management Description</b>	Non AFM Blazer SS/11.5 CHARGER	Non AFM Lyriq 19.2 kW charger	Non AFM Lyriq 11.5 kW Charger

## Engine Code Information

	11	12	13
<b>Base Engine Code</b>	11	12	13
<b>EC Derivatives</b>			
<b>Test Group</b>	VGMXJ00.0017	VGMXJ00.0017	VGMXJ00.0017
<b>Durability Group</b>	VGMXEEVNN002	VGMXEEVNN002	VGMXEEVNN002
<b>Engine RPO</b>	X0E	X0E	X0E
<b>Disp, liters</b>	0.0	0.0	0.0
<b>Trans RPO</b>	P9C	P9C	P9C
<b>Trans Type</b>	A1	A1	A1
<b>Product Code</b>	--	--	--
<b>Emission RPO</b>	NF6	NF6	NF6
<b>Emissions Category</b>	ZEV	ZEV	ZEV
<b>Vehicle Type</b>	TRUCK	TRUCK	TRUCK
<b>Regulatory Agencies</b>	C	C	C
<b>Sales Area</b>	FA/CA	FA/CA	FA/CA
<b>Design Altitude</b>	Both	Both	Both
<b>A/C Equipped</b>	Yes	Yes	Yes
<b>Driver Select Device</b>	OPD: On/Off/High, Sport, Relaxed, Snow	My Mode, Tour, Sport, Snow/Ice, OPD: High, Low, Off	My Mode, Tour, Sport, Snow/Ice, OPD: High, Low, Off
<b>Police Only</b>	No	No	No
<b>Horsepower @ RPM</b>	615	440	440
<b>Torque @ RPM</b>	NA	NA	NA
<b>Emission Ctrl Sys</b>	N/A	N/A	N/A
<b>TapUp/TapDown</b>	No	No	No
<b>Active Fuel Management Description</b>	Non AFM Lyriq 22 kW Charger	Non AFM Optiq/11.5 k@ Charger	Non AFM Optiq/19.2 kW Charger

## Engine Code Information

	14	15
<b>Base Engine Code</b>		
<b>EC Derivatives</b>		
<b>Test Group</b>	VGMXJ00.0017	VGMXJ00.0017
<b>Durability Group</b>	VGMXEEVNN002	VGMXEEVNN002
<b>Engine RPO</b>	X0E	X0E
<b>Disp, liters</b>	0.0	0.0
<b>Trans RPO</b>	P9C	P9C
<b>Trans Type</b>	A1	A1
<b>Product Code</b>	--	--
<b>Emission RPO</b>	NF6	NF6
<b>Emissions Category</b>	ZEV	ZEV
<b>Vehicle Type</b>	CAR	CAR
<b>Regulatory Agencies</b>	C	C
<b>Sales Area</b>	FA/CA	FA/CA
<b>Design Altitude</b>	Both	Both
<b>A/C Equipped</b>	Yes	Yes
<b>Driver Select Device</b>	My Mode, Tour, Sport, Snow/Ice, OPD: High, Low, Off	My Mode, Tour, Sport, Snow/Ice, OPD: High, Low, Off
<b>Police Only</b>	No	No
<b>Horsepower @ RPM</b>	519	519
<b>Torque @ RPM</b>	NA	NA
<b>Emission Ctrl Sys</b>	N/A	N/A
<b>TapUp/TapDown</b>	No	No
<b>Active Fuel Management Description</b>	Non AFM Optiq V-Series/11.5 kW Charger	Non AFM Optiq V-Series/19.2 kW Charger

## Engine Code Information

<b>Base Engine Code</b>	16	17
<b>EC Derivatives</b>		
<b>Test Group</b>	VGMXJ00.0017	VGMXJ00.0017
<b>Durability Group</b>	VGMXEEVNN002	VGMXEEVNN002
<b>Engine RPO</b>	X0E	X0E
<b>Disp, liters</b>	0.0	0.0
<b>Trans RPO</b>	P9C	P9C
<b>Trans Type</b>	A1	A1
<b>Product Code</b>	--	--
<b>Emission RPO</b>	NF6	NF6
<b>Emissions Category</b>	ZEV	ZEV
<b>Vehicle Type</b>	TRUCK	CAR
<b>Regulatory Agencies</b>	C	C
<b>Sales Area</b>	FA/CA	FA/CA
<b>Design Altitude</b>	Both	Both
<b>A/C Equipped</b>	Yes	Yes
<b>Driver Select Device</b>	My Mode, Tour, Sport, Snow/Ice, OPD: High, Low, Off	My Mode, Tour, Sport, Snow/Ice, OPD: High, Low, Off
<b>Police Only</b>	No	No
<b>Horsepower @ RPM</b>	440	440
<b>Torque @ RPM</b>	NA	NA
<b>Emission Ctrl Sys</b>	N/A	N/A
<b>TapUp/TapDown</b>	No	No
<b>Active Fuel Management Description</b>	Non AFM Optiq/22 kW Charger	Non AFM Optiq V-Series/22 kW Charger

## Engine Code Information

<b>Base Engine Code</b>	18
<b>EC Derivatives</b>	
<b>Test Group</b>	VGMXJ00.0017
<b>Durability Group</b>	VGMXEEVNN002
<b>Engine RPO</b>	X0E
<b>Disp, liters</b>	0.0
<b>Trans RPO</b>	P9C
<b>Trans Type</b>	A1
<b>Product Code</b>	--
<b>Emission RPO</b>	NF6
<b>Emissions Category</b>	ZEV
<b>Vehicle Type</b>	CAR
<b>Regulatory Agencies</b>	C
<b>Sales Area</b>	FA/CA
<b>Design Altitude</b>	ALL
<b>A/C Equipped</b>	Yes
<b>Driver Select Device</b>	Relaxed, Tour, Sport, Snow, Max Power, OPD: High, Low, Off
<b>Police Only</b>	No
<b>Horsepower @ RPM</b>	655
<b>Torque @ RPM</b>	646
<b>Emission Ctrl Sys</b>	N/A
<b>TapUp/TapDown</b>	No
<b>Active Fuel Management Description</b>	Non AFM CELESTIQ 19.2 kW Charger

# **Battery Electric Vehicle System Description**

## **Electric Drive Unit**

Lyriq, LyriqV, Vistiq, Blazer

Two AC Permanent Magnet electric motors  
Front Drive Motor: 155 kW Peak Power  
305 Nm Peak Torque  
Rear Drive Motor: 220 kW Peak Power  
405 Nm Peak Torque

CELESTIQ

Two AC Permanent Magnet electric motors  
Front Drive Motor: 180 kW Peak Power  
300 Nm Peak Torque  
Rear Drive Motor: 260 kW Peak Power  
315 Nm Peak Torque

Optiq and OptiqV

Two AC Permanent Magnet electric motors  
Front Drive Motor: 140 kW Peak Power  
300 Nm Peak Torque  
Rear Drive Motor: 205 kW Peak Power  
415 Nm Peak Torque

## **Battery**

Lithium-Ion battery pack  
10-Mod ER3 290 Ah

Lithium-Ion battery pack  
16-Mod EHT 290 Ah

Lithium-Ion battery pack  
12-Mod EC6 290 Ah

Lithium Ion battery pack – Active Liquid Cooled 240 Cells in series

ER3: 172.73mm x 1541.89mm x 1998.36mm battery pack

EC6: 172.04mm x 1541.89mm x 2307.18mm battery pack

EHT: 293.50mm x 1596.11mm x 2466.20mm battery pack

Battery Nominal Power C/3 ER3 and EC6 – 101.8 (A)

Battery Nominal Power C/3 EHT – 101.2 (A)

Battery Nominal Voltage – 290 V

Battery Energy Capacity – 290 Ah

Definition of end of life – For purposes of replacement, a module is no longer considered acceptable whenever any given cell has deviated by an unacceptable magnitude such that it would affect the safety of the vehicle.

Description of a battery disposal plan – Battery is recycled using GM contractor for service and warranty replacements. GM also provides recycling resources at [www.recyclemybattery.com](http://www.recyclemybattery.com)

Accessories which draw energy from the batteries – Cabin heater, Air Conditioner, Battery Heater, Accessory Power Module (12V)

## **Charger:**

On-board, liquid cooled, 11 kW (240V), 48 Amp wall service on 240V

On-board, liquid cooled, 19 kW (240V), 80 Amp wall service on 240V

On-board, liquid cooled, 22 kW (240V), 80 Amp wall service on 240V

Maximum allowable fast charge capability: 500 Amps

## **Transmission**

2 automatic single speed drive units (1 front and 1 rear)

## TRANSMISSION INFORMATION

Test Group ID	VGMXJ00.0017	VGMXJ00.0017	VGMXJ00.0017
Transmission Code	1	3	4
Transmission RPO	P9C	P9C	P9C
Transmission Type	A1	A1	A1
Drive Gear Ratios	10.49	10.49	10.49
Chain Drive Ratio	NA	NA	NA
Shift Calibrations	Computer Controlled	Computer Controlled	Computer Controlled
Torque Converter Diameter	NA	NA	NA
Torque Converter Stall Torque Ratio	NA	NA	NA
Torque Converter Lockup RPM'S	Computer Controlled	Computer Controlled	Computer Controlled
Torque Converter Stall Torque Speed	NA	NA	NA
Multimode Feature - # of Modes	15	6	12
Shift Indicator Light	--	NO	NO
Description	LyriqV/Vistiq/OptiqV/CELESTIQ/Blazer SS	Blazer PPV	Optiq/Lyriq
TapUp/TapDown	NO	NO	NO

# **SPECIAL TEST INSTRUCTIONS**

## **DRIVER SELECTABLE MODES**

Some vehicles are equipped with additional driver selectable modes. These vehicles are equipped with either additional gear shifter positions or a mode selection switch to engage each mode. Please refer to the Owner's Manual for specific instructions on how to engage each mode.

## **OTHER**

### **Drive Trace Tolerances:**

The driver must attempt to follow the target schedule as closely as possible. Instantaneous speeds must stay within the following tolerances. The upper limit is 2.0 mph higher than the highest point on the trace within 1.0 s of the given point in time. The lower limit is 2.0 mph lower than the lowest point on the trace within 1.0 s of the given time.

### **Test Vehicle Cooling Requirements:**

For Battery Electric Vehicles:

All testing for this test group must use a road speed fan on all regulated test cycles, as allowed by the regulations. Fan height (from floor to bottom edge of fan) is 12". The fan distance from the vehicle is 12".



March 5, 2026

VP018

Mr. D. Cullen  
U.S. Environmental Protection Agency  
Office of Transportation & Air Quality  
Certification & Compliance Division  
2000 Traverwood  
Ann Arbor, MI 48105

Dear Mr. Cullen:

Subject: Request for Certificate of Conformity - General Motors 2027 Test Group  
VGMXJ00.0017

General Motors requests that the EPA issue a certificate of conformity for the subject test group. GM requests the EPA review this application promptly to expedite final approval of the certificate of conformity for the subject test group. Attached to this request is the Part 1 Application.

GM requests that the EPA treat the information contained in this Part 1 Application, or information subsequently submitted for inclusion in this application, as confidential business information under 40 C.F.R. Part 2, Subpart B, and 5 U.S.C. § 552. The EPA's General Counsel made a class determination that information contained in applications for certification is entitled to confidential treatment (see Class Determination 1-13). As such, GM requests that the information described in each Table of the Class Determination be accorded confidential treatment in accordance with the time periods specified.

GM attests that the test group complies with all applicable regulations contained in 40 C.F.R. Parts 85 and 86, and the applicable California Amendments of the EPA regulations it has incorporated, and Title 13 of the California Code of Regulations.

Please review this information as soon as possible and call if you should have any questions regarding this request for a certificate of conformity.

Sincerely,

*C. A. Jeffrey*

C. A. Jeffrey  
Total Certification Engineer  
Compliance & Certification

CAJ/ks

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**general motors**

GM Proving Ground / Compliance & Certification / M/C 483-331-500 / 3300 GM Rd. / Milford, MI 48380-3726



March 5, 2026

VP019

Ms. Robin U. Lang, Chief  
Emissions Certification and Compliance Division  
California Air Resources Board  
4001 Iowa Avenue  
Riverside, CA 92507

Dear Ms. Lang:

Subject: Request for Executive Order - General Motors 2027 Test Group VGMXJ00.0017

General Motors requests that CARB issue an executive order for the subject test group. GM requests that the CARB treat the information contained in this Part 1 Application, or information subsequently submitted for inclusion in this application, as confidential business information pursuant to the California Public Records Act and Sections 91000-91022 of Title 17 of the California Code of Regulations. The information is confidential and sensitive GM business information that constitutes trade secrets and commercial or financial information within the meaning of Section 6254.7 of the California Public Records Act, is entitled to confidential treatment, and will cause substantial competitive harm to GM if released. In the event that CARB does not agree with our position regarding confidential treatment of this information or is considering the public release of this confidential, trade secret, and commercial or financial information, or receives a request for disclosure of the information, we request that you first provide notice to me and we request the opportunity to discuss the material and the need to maintain the confidentiality of this information with you or the CARB General Counsel before any decision is made regarding its release. GM requests that the information be accorded confidential treatment indefinitely.

GM attests that the test group complies with all applicable regulations contained in 40 C.F.R. Parts 85 and 86, and the applicable California Amendments of the EPA regulations that CARB has incorporated and Title 13 of the California Code of Regulations.

GM further recognizes that on June 12, 2025, a Congressional Review Act resolution came into effect disapproving the waiver that EPA had issued to CARB granting it authority to enforce the Advanced Clean Cars II regulation, which would have previously controlled for this executive order. On October 2, 2025, the California Office of Administrative Law approved CARB's emergency amendment intended to temporarily reinstate the agency's Advanced Clean Cars I regulations. GM is submitting this executive order request consistent with the temporary emergency amendment.

The EPA certificate of conformity for this test group will be forwarded to you when it becomes available.

Please review this information as soon as possible and call if you have any questions regarding this request for an executive order.

Sincerely,

*C. A. Jeffrey*

C. A. Jeffrey  
Total Certification Engineer  
Compliance & Certification




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general motors

GM Proving Ground / Compliance & Certification / M/C 483-331-500 / 3300 GM Rd. / Milford, MI 48380-3726




# Label Sample for OPTIQ, LYRIQ, VISTIQ and Blazer

VECI / Battery Label – Underhood

<b>M2027EN0FE9X0EOPT</b> Jan 28 2026 16:33:02	1Z2	1GA1249303		CTHCHD
 E9X0EOPT	<b>VEHICLE EMISSION CONTROL INFORMATION</b>			GENERAL MOTORS LLC
Conforms to Regulations: 2027 U.S. EPA class / stds: LDT / BIN0 Group: VGMXJ00.0017 California class / stds: LDT / ZEV		Fuel: Electric M2027EN0FE9X0EOPT Date: 2601		

# Label Sample for CELESTIQ

VECI / Battery Label – Underhood

<b>M2027EN0NF6X0ELYR</b> Jan 28 2026 16:33:07	1Z2	1GA1249303		CTHCHD
 F6X0ELYR	<b>VEHICLE EMISSION CONTROL INFORMATION</b>			GENERAL MOTORS LLC
Conforms to Regulations: 2027 U.S. EPA class / stds: LDT / BIN0 Group: VGMXJ00.0017 California class / stds: LDT / ZEV		Fuel: Electric M2027EN0NF6X0ELYR Date: 2601		