

Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A
Certificate Number	CNSXV0000LLA-037	CARB Executive Order #	N/A
Certificate Issue Date	08/02/2011	Certificate Revision Date	N/A
Certificate Effective Date	08/02/2011	Conditional Certificate	No
CSI Revision #	1	CSI Submission/Revision Date	07/25/2011
Model Year	2012		

Test Group Information

CSI Type	New	Running Change Reference Number	N/A
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	CNSXEEENN000	Durability Group Equivalency Factor	5.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Introduction into Commerce Date	10/21/2011	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Compliance Indicator	No	SFTP Composite CO Option	--
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	CNSXV01.6G4A
Mfr Test Group Comments	Durability Group Equivalency Factor is not available because this vehicle is BEV.(5.0 is a dummy)		
Mfr Exhaust / Evap Standards Comments	--		

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Nissan Motor Co., Ltd.	1 - NISSAN	25 - LEAF	Federal	2-Wheel Drive, Front	Automatic	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	25 - LEAF	California + CAA Section 177 states	2-Wheel Drive, Front	Automatic	1	Yes

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Test Group	CNSXV0000LLA				Evaporative/Refueling Family	N/A				
Engine Description										
Hybrid Type	--				Hybrid Description	--				
Engine Type	--				Mfr Engine Description	--				
Engine Block Arrangement	--				Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	--				Oil Viscosity/Classification					
Number of Cylinders/Rotors	--									
After Treatment Device(s) (ATD)										
Mfr After Treatment Device (ATD) Comments	--									
Direct Ozone Reduction (DOR) Device										
Mfr Emission Control Device Comments	--									
Official Test Numbers										
Test Group	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	--	--	--	--	--	N/A	N/A	--	N/A	N/A
Hybrid Electric Vehicle And Fuel Cell Information										
Rechargeable Energy Storage System	Battery(s)				Rechargeable Energy Storage System, if Other	--				
Battery Type	Lithium Ion				Number of Battery Packs	1				
Total Voltage of Battery Packs	360				Battery Energy Capacity	66				
Battery Specific Energy	82.8				Battery Charger Type	On-Board				
Number of Capacitors	N/A									
Capacitor Rating (In Farads)	--				Mfr Capacitor Comments	--				
Hydraulic System Description										
Regenerative Braking Type	Electrical Regen Brake									
Regenerative Braking Source	Front Wheels				Driver Controlled Regenerative Braking	No				
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	1									
Motor/Generator Type 1	DC Permanent Magnet, brushless				Rated Motor/Generator Power	80				
Mfr Fuel Cell Description										
Fuel Cell On-Board H2 Storage Capacity (kg)	--				Usable H2 Fill Capacity (kg)	--				
Mfr Hybrid Electric/ Electric Vehicle Comments										

Certification Summary Information Report

Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A						
Emission Data Vehicle Information									
Vehicle ID / Configuration	KLC221 / 0								
Vehicle Model									
Represented Test Vehicle Make	NISSAN	Represented Test Vehicle Model	NISSAN LEAF UPR						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>			Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	N	Multiple Fuel Combustion	--						
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Y						
Fuel Cell Indicator	N	Rechargeable Energy Storage System, if 'Other'	--						
Rechargeable Energy Storage System	--	# of Transmission Gears	1						
Off-board charge Capable Indicator	--	Axle Ratio	7.94						
Transmission Type	Auto(Fixed Single Speed)	Rated Horsepower	107						
Engine Code	EVAA1	Air Aspiration Method	Naturally Aspirated						
Displacement (liters)	99.999	SIL Usage	Not equipped						
Equivalent Test Weight (pounds)	3750								
Drive Mode While Testing	2-Wheel Drive, Front								
Aged Emission Components	4,000 (mi)								
Dynamometer Coefficients:									
	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients		
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)			
City/Highway/Evap	33.78	0.0618	0.02282	12.84	-0.0572	0.02245	--		
Manufacturer Test Vehicle Comments	D mode								

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Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A
Test #	BNSX10012314	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	62 - Electricity
Test Date	10/05/2010	Fuel	N/A
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	NISSAN MOTOR CO., LTD.		

PHEV/EV TEST INFO

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	24.627
Charge Depleting Range (Calculated miles)	108.537	Charge Depleting Range (Actual miles)	108.537
Equivalent All Electric Range	108.537		
Number of Charge Depleting Bags/Phases Conducted	1		

Charge Depleting Bag/Phase

Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result
1	Actual Distance Driven (miles)	108.537
1	Average System Voltage	0
1	Carbon-Related Exhaust Emissions	0
1	Integrated Amp-hours	0
1	Manufacturer Fuel Economy	149.1305
1	System End State of Charge Watt-hours	0
1	System Start State of Charge Watt-hours	0

Manufacturer Test Comments

This is official EPA confirmatory test results(Temporarily, inputted by Mfr.). Multimode transmission is D mode. Test Lab ID and Test Start Odometer Reading are entered as a dummy. AC Energy(kWh/100mile):22.6010

Certification Summary Information Report

Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A
Test #	BNSX10012316	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	62 - Electricity
Test Date	10/06/2010	Fuel	N/A
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	NISSAN MOTOR CO., LTD.		

PHEV/EV TEST INFO

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	24.7378
Charge Depleting Range (Calculated miles)	95.834	Charge Depleting Range (Actual miles)	95.834
Equivalent All Electric Range	95.834		
Number of Charge Depleting Bags/Phases Conducted	1		

Charge Depleting Bag/Phase

Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result
1	Actual Distance Driven (miles)	95.834
1	Average System Voltage	0
1	Carbon-Related Exhaust Emissions	0
1	Integrated Amp-hours	0
1	Manufacturer Fuel Economy	130.6331
1	System End State of Charge Watt-hours	0
1	System Start State of Charge Watt-hours	0

Manufacturer Test Comments

This is official EPA confirmatory test results(Temporarily, inputted by Mfr.). Multimode transmission is D mode. Test Lab ID and Test Start Odometer Reading are entered as a dummy. AC Energy(kwh/100mile):25.8013

Certification Summary Information Report

Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A
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Emission Data Vehicle Information

Vehicle ID / Configuration KLC221 / 1

Vehicle Model

Represented Test Vehicle Make NISSAN **Represented Test Vehicle Model** NISSAN LEAF UPR

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity

Hybrid Indicator	N	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Y
Fuel Cell Indicator	N	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--		
Transmission Type	Auto(Fixed Single Speed)	# of Transmission Gears	1
Engine Code	EVAA1	Axle Ratio	7.94
Displacement (liters)	99.999	Rated Horsepower	107
Equivalent Test Weight (pounds)	3750	Air Aspiration Method	Naturally Aspirated
Drive Mode While Testing	2-Wheel Drive, Front	SIL Usage	Not equipped
Aged Emission Components	4,000 (mi)		

Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	33.78	0.0618	0.02282	12.84	-0.0572	0.02245	--

Manufacturer Test Vehicle Comments Eco mode

Certification Summary Information Report

Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A
Test #	BNSX10012323	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	62 - Electricity
Test Date	10/08/2010	Fuel	N/A
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	NISSAN MOTOR CO., LTD.		

PHEV/EV TEST INFO

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	24.675
Charge Depleting Range (Calculated miles)	96.497	Charge Depleting Range (Actual miles)	96.497
Equivalent All Electric Range	96.497		
Number of Charge Depleting Bags/Phases Conducted	1		

Charge Depleting Bag/Phase

Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result
1	Actual Distance Driven (miles)	96.497
1	Average System Voltage	0
1	Carbon-Related Exhaust Emissions	0
1	Integrated Amp-hours	0
1	Manufacturer Fuel Economy	132.0102
1	System End State of Charge Watt-hours	0
1	System Start State of Charge Watt-hours	0

Manufacturer Test Comments

This is official EPA confirmatory test results(Temporarily, inputted by Mfr.). Multimode transmission is ECO mode. Test Lab ID and Test Start Odometer Reading are entered as a dummy. AC Energy(kWh/100mile):25.5321

Certification Summary Information Report

Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A
Test #	BNSX10012324	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	62 - Electricity
Test Date	10/07/2010	Fuel	N/A
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	NISSAN MOTOR CO., LTD.		
PHEV/EV TEST INFO			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	24.4974
Charge Depleting Range (Calculated miles)	111.934	Charge Depleting Range (Actual miles)	111.934
Equivalent All Electric Range	111.934		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result
	1	Actual Distance Driven (miles)	111.934
	1	Average System Voltage	0
	1	Carbon-Related Exhaust Emissions	0
	1	Integrated Amp-hours	0
	1	Manufacturer Fuel Economy	154.0347
	1	System End State of Charge Watt-hours	0
	1	System Start State of Charge Watt-hours	0
Manufacturer Test Comments	This is official EPA confirmatory test results(Temporarily, inputted by Mfr.). Unit of Energy is Wh/mi. Multimode transmission is ECO mode. Test Lab ID and Test Start Odometer Reading are entered as a dummy. AC Energy(kWh/100mile):21.8814		

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Test Group	CNSXV0000LLA		Evaporative/Refueling Family				N/A			
Consolidated List of Standards										
Exhaust Standards										
Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert			
Vehicle Class	LDV/Passenger Car			Standard Level			California ZEV			
Fuel	Electricity			Test Procedure			California fuel 3-day exhaust			
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CO	--	--	--	--	--	--	--	0.0	
Cert Region	Federal			Cert/In-Use Code			Cert			
Vehicle Class	LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 1			
Fuel	Electricity			Test Procedure			California fuel 3-day exhaust			
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CO	--	--	--	--	--	--	--	0.0	

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Test Group	CNSXV0000LLA	Evaporative/Refueling Family	N/A
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	ETHANOL	C2H5OH - Ethanol
CO	Carbon Monoxide	FE BAG 1	Bag 1 Fuel Economy
CO2	Carbon dioxide	FE BAG 2	Bag 2 Fuel Economy
CREE	Carbon-Related Exhaust Emissions	FE BAG 3	Bag 3 Fuel Economy
OPT-CREE	Optional Carbon-Related Exhaust Emissions	FE BAG 4	Bag 4 Fuel Economy
NOX	Nitrogen Oxide	MFR FE	Manufacturer Fuel Economy
PM	Particulate Matter	HC	Hydrocarbon for Running Loss and ORVR
PM-COMP	SFTP Composite Particulate Matter	METHANE	CH4 - Methane
HC-NM	Non-methane Hydrocarbon	METHANOL	CH3OH - Methanol
OMHCE	Organic material Hydrocarbon Equivalent	N2O	Nitrous Oxide
OMNMHCE	Organic material non-methane HC equivalent	SPITBACK	Spitback Hydrocarbon in grams
NMOG	Non-methane organic gas (California)	AMP-HRS	Integrated Amp-hours
HCHO	Formaldehyde	START-SOC	System Start State of Charge Watt-hours
H3C2HO	Acetaldehyde	END-SOC	System End State of Charge Watt-hours
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	ACT-DISTANCE	Actual Distance Driven (miles)
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	AS-VOLT	Average System Voltage
CO-COMP	SFTP Composite Carbon Monoxide		
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	B11	Federal Tier 2 Bin 11
B2	Federal Tier 2 Bin 2	HDV1	Federal HDV (8500-10,000 GVWR)
B3	Federal Tier 2 Bin 3	HDV2	Federal HDV (10,001-14,000 GVWR)
B4	Federal Tier 2 Bin 4	L2	California LEV-II LEV
B5	Federal Tier 2 Bin 5	L2OP	California LEV-II LEV Optional
B6	Federal Tier 2 Bin 6	U2	California LEV-II ULEV
B7	Federal Tier 2 Bin 7	S2	California LEV-II SULEV
B8	Federal Tier 2 Bin 8	ZEV	California ZEV
B9	Federal Tier 2 Bin 9	OT	Other
B10	Federal Tier 2 Bin 10	T1	Federal Tier 1
Transmission Type Code			
A	Automatic	OT	Other

Certification Summary Information Report

Test Group		CNSXV0000LLA	Evaporative/Refueling Family		N/A
AM	Automated Manual		SA	Semi-Automatic	
CVT	Continuously Variable		SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
M	Manual				
Drive System Code					
4	4-Wheel Drive		P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	