CARB LDV E-Cert Form

Version 2.0.5.0
Please enter all data in UPPERCASE.

Contact Information

Application

General Information

CARB MFR Code:	ARB
Model Year:	2014
Test Group Name:	EARBV0.00ARB
Application Type:	NEW

CSI 1

Durability Group Name:	EARBV0000000
Running Change Reference Number/Name:	
CARB TG Classification:	50 STATES
CARB TG Interim / In-Use FTP Standard:	NOT APPLICABLE
CARB TG Interim / In-Use SFTP Standard:	NOT APPLICABLE
Federally-Certified Vehicle (Cleaner Federal Vehicle):	NO, THIS TEST GROUP COMPLIES WITH CA LOW EMISSION VEHICLE STANDARDS
CARB FTP Standard:	ZEV

EPA FTP Standard:	NOT APPLICABLE
SFTP Standard:	NOT APPLICABLE
Please select a vehicle class of a TG, or a vehicle class to which the most stringent standard is applied, if multiple vehicle classes are in the TG:	PASSENGER CAR
Does this TG meet optional LEV NOx exhaust emission standard certification for "Work Trucks"?:	NO
TG Fuel Category:	ZEV (BATTERY ELECTRIC)
Light-Duty Specially Constructed Vehicles (SPCNS):	NO, THIS TEST GROUP IS NOT SPCNS

Light-Duty Specially Constructed Vehicles Only	
Weight of Worst Case Vehicle (lbs)	N/V Ratio of Worst Case Vehicle

OBD Approval Reference Number:	
CSI 1 Manufacturer Notes:	

CSI 2A

CSI 2B

CSI 3

CSI 4 (All fields in red are considered CBI)

CSI 5A (All fields in red are considered CBI)

CSI 5B (All fields in red are considered CBI)

CSI 6A

CSI 6B

CSI 6C

CSI 7 (All fields in red are considered CBI)

CSI 10A

CSI 10B (All fields in red are considered CBI)

ZEV Set Number:	<u>1</u>	(Select a sequential number, starting with 1 for each Set Number.)
ZEV Energy Storage Device Category:	<u>BATTERY</u>	
If Other, Specify:		

Battery:

Battery Type: <u>LI+ (LITHIUM ION)</u>

If Other, Specify:

Number of Battery Cells: `1`

Total Weight of Battery System (kg): `350`

Total Battery System Voltage: `400`

Minimum Battery Voltage for Safe Operation: `400`

Total Battery System Energy Capacity (Ah): `120`

Total Battery System Specific Energy Density (Whr/Kg): `120`

Battery Charger Type: <u>ON-BOARD CONDUCTIVE</u>

If Other, Specify:

Battery Thermal Management: <u>ACTIVE-LIQUID COOLED</u>

If Other, Specify:

Electric Vehicle Charging Requirements (Sec. 1962.3)? <u>YES, THIS MODEL COMPLIES WITH SECTION 1962.3 'ELECTRIC VEHICLE CHARGING REQUIREMENTS'</u>

Total Number of Capacitors:

Capacitor Rating (Farads)

Drive Motor:

Number of Drive Motors: `1`

ZEV Electric Drive Motor Set Number: <u>1</u>   (Select a sequential number, starting with 1 for each Set Number.)

Drive Motor Type: <u>AC INDUCTION</u>

If Other, Specify:

Drive Motor Mechanical Power (kW): `210`   @RPM: `6,500`

Drive Motor Peak Torque (Nm): `400`

Fuel Cell Only:

Fuel Cell Vehicle Stack Technology:

Fuel Cell Vehicle: On-Board H2 Storage Method: Select...

If Other, Specify:

On-Board H2 Storage Capacity (kg):

Usable H2 Capacity as a Percentage of Maximum Capacity (%):

Range Test Procedure: Select...

Hybrid Fuel Cell Vehicle (HFCV):   Select...

Fuel Economy (miles/kg H2):   City: Hwy:

Total # of Cells:

Fuel Cell Arrangement:

ZEV Test Parameter Information Section:

ZEV Test Vehicle ID: ARB-678

ZEV Regenerative Braking: ELECTRICAL REGENRATIVE BRAKING

If Other, Specify:
ZEV Regenerative Braking Source: REAR WHEELS

Driver Controlled Regenerative Braking: NO

ZEV Vehicle Configuration: 01

Tire Size: Front: 245/45R19   Rear: 245/45R19

Curb Weight (lb):   2000

LVW (lb):   2300

GVWR (lb):   2600

ALVW (lb):   2300

ETW (lb):   2150

Target Coefficient A (lb_f):   38.34

Target Coefficient B (lb$_f$/mph):	0.1354
Target Coefficient C (lb$_f$/mph^2):	0.0121
Road Load Horsepower (RLHP):	11.5
Transmission Type:	OTHER
If Other, Specify:	
# of Forward Transmission Gears:	1

All Electric Range Test Information:

Manufacturer Test Number:					
	Urban	**Highway**	**Cold CO**	**SC03**	**US06**
All Electric Range (mi):	112	151			
Net DC Energy Output during Test (kWh/mi):	0.255	0.251			
Total AC Energy required to fully charge Batteries after Test (kWh/mi):	0.261	0.258			
Total DC Energy required to fully charge Batteries after Test (kWh/mi):	0.254	0.250			

ZEV Model Information:

ZEV Model Number:	1	(Select a sequential number, starting with 1 for each Model Number.)
Zero Emission Vehicle Tier:	TYPE II	

ZEV Electric Drive Motor Set Number for Model

1

ZEV Battery Number

1

Fast Refueling UDDS ZEV Range Mileage:	NOT APPLICABLE
Fast Refueling: Recharging/Refueling Time to replace (min):	
CARB ZEV Multiplier:	
CARB ZEV Credit (without multiplier):	3
ZEV Vehicle Make:	ARB INDUSTRIES

ZEV Model Name:	PURE ZEV
ZEV Category:	BATTERY
If Other, Specify:	
Fuel Type:	LITHIUM ION BATTERY
Model Vehicle Class:	PASSENGER CAR
Model Specific Label Type:	50 STATES

NEV+ Only:

ZEV Projected Sales-CA Only: 500

ZEV Projected Sales-Section 177 States: 600

CSI 10B Manufacturer Note: