

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-306-7  
Relating to Certification of New Motor Vehicles

SOLECTRIA CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Solectria Corporation new pure electric motor vehicles are certified as described below for medium-duty vehicles:

Emission Standard Category: Zero-Emission Vehicle (ZEV)

Fuel Type: Battery-Stored Electricity

Engine Family: XSLCH0000003

Battery Type: Lead Acid

Vehicle Model: CitiVan

BE IT FURTHER RESOLVED: That because the listed vehicle models are powered by battery-stored electricity, and the only on-board system consuming any fuel other than electricity is a fuel-fired heating system that is designed and equipped so that it cannot be activated at temperatures above 40 degrees Fahrenheit and has been demonstrated to have zero evaporative emissions under any and all possible operational modes and conditions, the vehicle models meet the certification requirements for ZEVs set forth in Title 13, California Code of Regulations, Section 1960.1(g)(1), note (2.1)a; the listed vehicle models also meet the definition of "low-emission motor vehicle" set forth in Health and Safety Code Sections 39037.05 and 43800.

BE IT FURTHER RESOLVED: That no modification may be made to the on-board heating system that would make it operable at temperatures above 40 degrees Fahrenheit, or that would result in evaporative emissions under any possible operational mode or condition.

BE IT FURTHER RESOLVED: That the listed vehicle models have been demonstrated, based on the vehicle range capabilities or on the specific energy of the battery, to qualify for and shall be granted one ZEV credit pursuant to Title 13, California Code of Regulations, Section 1960.1(g)(2), note (9)a.

BE IT FURTHER RESOLVED: That the listed vehicle models shall comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models shall be clearly labeled as "low-emission motor vehicles" pursuant to the requirements of Health and Safety Code Section 43802(a).

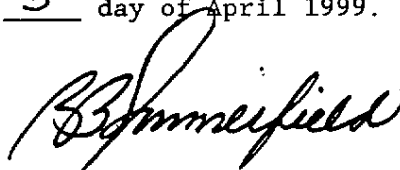
BE IT FURTHER RESOLVED: That because the vehicles certified by this executive order have no parts that affect emissions for which there is an applicable emission requirement, the manufacturer is not required to provide an emission control system warranty pursuant to Health and Safety Code Section 43205 or Title 13, California Code of Regulations, Sections 2035 et seq.

Quarterly production reports shall be submitted to the Executive Officer no later than 45 days after the end of each quarter.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 5<sup>th</sup> day of April 1999.



R. B. Summerfield, Chief  
Mobile Source Operations Division

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**1999 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM DUTY VEHICLES**

Manufacturer Solectria Corporation Engine Family XSLCH0000003  
 Veh Class(es) PC    LDT1    LDT2    MDV1    MDV2    MDV3    MDV4  MDV5     
 No. of ZEV Credits per vehicle 1  
 Fuel Type: Electro chemical Battery  Fuel Cell    Capacitor    Other(specify)     
 Battery Type(s): Lead Acid  Nickel Cadmium    SBLA    Sodium Sulfur     
 Sodium Nickel Chloride    Nickel Metal Hydride    Lithium Metal Disulfide     
 Zinc Air    Zinc Bromine    Lithium Polymer    Other(specify)     
 Total Battery Weight 2782 lbs Total Battery Volume 37.694 in<sup>3</sup> Battery Specific Energy 19.7 Wh/kg  
 No. of batteries or modules per vehicle 52 Total Battery Voltage 312V  
 Charger(s): on-board  off-board    conductive  inductive     
 Drive Motor(s): AC Induction  DC Brush    DC Brushless     
 Switched Reluctance    Other(specify)     
 No. of Drive Motors 1 Rated motor power 70kW @ 3000 rpm Max rpm 10,000  
 Drive: FWD    RWD  4WD-FT    4WD-PT     
 Regenerative Braking: No    Yes  FW    RW  AW     
 Driver Controller Regen Braking: Yes  No    Coast Regen Braking: Yes  No     
 Air Conditioning: Yes    No   
 Fuel Fired Heater: Fuel Type: Gas    Diesel  CNG    LNG     
 LPG    Other(specify)    Rated Heat Power 5 kW

Vehicle Models (If needed see attachment)	Trans. type M5, A4 (if applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA or RLHP
CitiVan	auto/1spd	11,000 lbs	8580 lbs	9790 lbs	lbf

$$RLHP \text{ lbf} = -0.82 + 4.45V + 0.02V^2$$

Date Issued:

Revisions: