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Heavy Vehicle and Engine Resource Guide



DOE/GO-102004-1866
March 2004

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About This Guide

The U.S. Department of Energy’s Heavy Vehicle & Engine Resource Guide is a catalog of medium- and heavy-duty engines and vehicles with alternative fuel and advanced powertrain options. This edition covers model year 2003 engines and vehicles. The information was collected by the National Renewable Energy Laboratory to provide fleet operators, policymakers, alternative fuel industry participants, and other interested parties with an overview of heavy vehicle and engine products currently available in the United States. In addition to product information, the guide includes:

- Contact information for vehicle and engine manufacturers as well as organizations and government agencies involved in the alternative fuel and advanced vehicle and engine market
- A glossary of commonly used alternative fuel and advanced vehicle and engine terms and acronyms
- A chart with applicable vehicle and engine emission certification specifications.

Product information, which was furnished by original equipment manufacturers, is divided into three categories: Alternative Fuel Medium and Heavy Engines; Natural Gas and Propane Medium and Heavy Vehicles; and Hybrid Electric and Battery Electric Heavy Vehicles. Respondents were asked to provide accurate, up-to-date information about all their heavy vehicle and engine products. All information in the guide is subject to change. Visit manufacturer Web sites for the most up-to-date product information.

Best efforts were made to collect information from all manufacturers offering commercially available medium and heavy vehicles and engines with alternative fuel and advanced technology options, and to collect information on all their alternative fuel products. However, some manufacturers and products may not appear in the guide.

Glossary of Abbreviations

AC	Alternating current	R&D	Research and development
AFDC	Alternative Fuels Data Center (U.S.)	RFG	Reformulated gasoline
AFV	Alternative fuel vehicle	RPM	Revolutions per minute
amp-h	Amperes per hour	scf	Standard cubic feet
APU	Auxiliary power unit	SCFM	Standard cubic feet per minute
Btu	British thermal unit	V	Volts
CAA	Clean Air Act/Clean Air Act Amendments	VOC	Volatile organic compound
CFV	Clean fuel vehicle	ZEV	Zero-emission vehicle
CH₄	Methane		
CNG	Compressed natural gas		
CO	Carbon monoxide		
CO₂	Carbon dioxide		
DC	Direct current		
DGE	Diesel gallon equivalent		
DOE	Department of Energy (U.S.)		
DOT	Department of Transportation (U.S.)		
ECD	Emissions control device		
ECM	Electronic control module		
EGR	Exhaust gas recirculation		
EPAct	Energy Policy Act of 1992 (U.S.)		
EV	Electric vehicle		
ft-lb	Foot-pound		
FTP	Federal Test Procedure		
gal	Gallons		
GPM	Grams per mile		
GVWR	Gross vehicle weight rated		
HC	Hydrocarbons		
HD	Heavy-duty		
HEV	Hybrid-electric vehicle		
hp	Horsepower		
ICE	Internal combustion engine		
ILEV	Inherently low-emission vehicle		
in	Inches		
in³	Cubic inches		
kW	Kilowatt		
kW-h	Kilowatts per hour		
L	Liter		
lb	Pounds		
LNG	Liquefied natural gas		
LPG	Liquefied petroleum gas (propane)		
MPG	Miles per gallon		
MPH	Miles per hour		
N/A	Not available/not applicable		
NG	Natural gas		
NGV	Natural gas vehicle		
NiCd	Nickel-cadmium		
NiMH	Nickel metal hydride		
NMHC	Nonmethane hydrocarbon		
NMOG	Nonmethane organic gas		
NO_x	oxides of nitrogen		
NREL	National Renewable Energy Laboratory (U.S.)		
OEM	Original equipment manufacturer		
psi	Pounds per square inch		
psig	Pounds per square inch gauge (above atmospheric pressure)		

Heavy Vehicle and Engine Emission Standards for the United States*

Regulating agency	Effective MY	Applicable vehicle/engine classification	NMHC (g/bhp-h)	CO (g/bhp-h)	PM (g/bhp-h)	NOx (g/bhp-h)
CARB ULEV	1992-2003	Medium-duty vehicles/engines, 8,501 to 14,000 lb GVW ¹	0.197/0.257	8.1/10.3	0.06/0.06	1.0/1.5
CARB SULEV	1992 and later	Medium-duty vehicles/engines, 8,501 to 14,000 lb GVW ¹	0.1/0.13	4.1/5.2	0.06/0.06	0.5/0.7
CARB ULEV _A	1992-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
CARB SULEV _A	1992 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.0 NMHC + NOx	7.2	0.05	2.0 NMHC + NOx
CARB	1994 and later	Heavy-duty diesel engines/vehicles (trucks)	1.2 _B	15.5	0.1 _C	5
CARB	1994 and later	Heavy-duty diesel engines/vehicles (urban transit buses)	1.2 _B	15.5	0.07	5
CARB	1996 and later	Heavy-duty diesel engines/vehicles (trucks)	1.2 _B	15.5	0.1	5
CARB	1996 and later	Heavy-duty diesel engines/vehicles (urban transit buses)	1.2 _B	15.5	0.05	4
U.S. EPA	1996 and later	Heavy-duty diesel engines/vehicles (urban transit buses)	1.3	15.5	0.05 (0.07 in-use)	5
U.S. EPA	1998 and later	Heavy-duty diesel engines/vehicles over 8,500 lb GVW (CI/urban bus)	2.5 NMHC + NOx	15.5	0.05 (0.07 in-use)	4
U.S. EPA	1998 and later	Heavy-duty diesel engines/vehicles 8,501-14,000 lb GVW (SI/Otto cycle)	0.9	14.4	NA	4.0 (5.0 for NG eng.)
U.S. EPA	1998 and later	Heavy-duty diesel engines/vehicles over 14,000 lb GVW (SI/Otto cycle)	1.7	37.1	NA	4.0 (5.0 for NG eng.)
U.S. EPA CFF LEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	3.8 NMHC + NOx (3.5 with Calif. Fuel)	15.5	0.1	3.8 NMHC + NOx (3.5 with Calif. Fuel)
U.S. EPA CFF ILEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
U.S. EPA CFF ULEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	2.5 NMHC + NOx	7.2	0.05	2.5 NMHC + NOx
U.S. EPA CFF ZEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	0	0	0	0
CARB	1998 and later	Heavy-duty engines/vehicles (except urban buses)	1.2	15.5	0.1	4
CARB LEV _A	2002-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	3.0 NMHC + NOx	14.4	0.1	3.0 NMHC + NOx
CARB	2002 and later	Urban transit buses (fleets choosing diesel path)	2.5 NOx + NMHC/4.8 NOx fleet avg.	15.5	0.01	2.5 NOx + NMHC
CARB	2002 and later	Urban transit buses (fleets choosing alt. fuels path)	1.8 NOx + NMHC (opt.)/4.8 NOx fleet avg.	15.5	0.03	1.8 NOx + NMHC (opt.)/4.8 NOx fleet avg.
CARB	2002-2006 _D	Heavy-duty engines/vehicles over 14,000 lb GVW (except urban buses)	1.8 to 0.3 NMHC + NOx	15.5	0.03 to 0.01	1.8 to 0.3 NMHC + NOx
CARB	2004 and later	Heavy-duty engines/vehicles (except urban buses) _{E, F}	2.4-2.5 NOx + NMHC	15.5	0.1	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB	2004 and later	Urban transit buses (fleets choosing diesel path)	NA	15.5	0.01	0.5
CARB ULEV _G	2004 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW _F	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)	14.4	0.1	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB SULEV _G	2004 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW _F	2.0 NMHC + NOx	7.2	0.1	2.0 NMHC + NOx
CARB	2004-2006	Heavy-duty engines	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)	15.5	0.1	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB _G	2004 and later	Otto-cycle engines used in vehicles of more than 14,000 GVW	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)	37.1	NA	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB ULEV _G	2005 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW	1.0 NMHC+NOx	14.4	NA	1.0 NMHC+NOx
CARB SULEV	2005 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW	0.5 NMHC+NOx	7.2	NA	0.5 NMHC+NOx
CARB _G	2005 and later	Otto-cycle engines used in vehicles of more than 14,000 GVW	1.0 NMHC+NOx	37.1	NA	1.0 NMHC+NOx
U.S. EPA CFF	2004 and later	Heavy-duty diesel engines for vehicles over 8,500 lb	2.4 NMHC + NOx	15.5	0.1/0.05	2.4 NMHC + NOx
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 8,501-10,000 lb	0.28 g/mile	NA	NA	0.9 g/mile
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 10,001-14,000 lb	0.33 g/mile	NA	NA	1.0 g/mile
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW more than 14,000 lb	1.0 g/bhp-hr HC+NOx	NA	NA	1.0 g/bhp-hr HC+NOx

Heavy Vehicle and Engine Emission Standards for the United States* (cont.)

Regulating agency	Effective MY	Applicable vehicle/engine classification	NMHC (g/bhp-h)	CO (g/bhp-h)	PM (g/bhp-h)	NOx (g/bhp-h)
CARB	2007 and later	Urban transit buses (fleets choosing diesel path)	NA	NA	0.01	0.2
CARB	2007 and later	Urban transit buses (fleets choosing alt. fuels path)	NA	NA	0.01	0.2
CARB	2007 and later	Heavy-duty engines/vehicles (other than transit)	0.14	15.5	0.01	0.2
U.S. EPA	2007 and later ^H	Heavy-duty diesel and gasoline engines/vehicles	0.14	15.5	0.01	0.2
U.S. EPA	2008 and later	Heavy-duty Otto-cycle engines/vehicles	0.14	14.4	0.01	0.20
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 8,501-10,000 lb	0.195 g/mile	7.3 g/mi	0.02 g/mi	0.2 g/mi
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 10,001-14,000 lb	0.23 g/mile	8.1 g/mile	0.02 g/mile	0.4 g/mile

* For more detailed information, visit the EPA Office of Transportation and Air Quality web site at www.epa.gov/otaq or the CARB web site at www.arb.ca.gov

A. Optional standards

B. NMHC standard applies to petroleum-, natural gas & propane-powered engines; THC standard for other vehicles is 1.3

C. PM standard for urban transit buses is 0.07 g/bhp-hr under transient operating conditions

D. Optional standards effective 10/2002

E. Standards apply to engines fueled with petroleum- or alcohol-based fuel, natural gas or propane

F. Optional certification for manufacturers of engines used in incomplete vehicles 8,501-14,000 lb GVW

G. Manufacturer may opt to certify to option 1 or 2 federal NMHC+NOx standards

H. Standards phased in from 2007 to 2010 for diesel, 2008-2009 for gasoline

I. 1st standard listed is for engines/vehicles 8,501-10,000 lb GVW; 2nd is for those 10,001-14,000 lb GVW

Information Sources for Heavy Vehicles and Engines

Trade associations, R&D groups, government agencies, advocacy groups, etc.

Advanced Transportation Technology Institute (formerly Electric Transit Vehicle Institute)

1617-B Wilcox Blvd.
Chattanooga, TN 37406
Contact: John Powell
Phone: 423-622-3884
Fax: 423-622-0744
Web site: <http://www.atti-info.org/>

Alternative Fuels Data Center and Hotline, U.S. Department of Energy

Phone: 800-423-1363/703-934-3069
E-mail: hotline@afdc.nrel.gov
Web site: <http://www.afdc.doe.gov/>

American Bioenergy Association

209 Pennsylvania Ave. NE
Washington, DC 20003
Contact: Megan Smith
Phone: 202-546-4551
Fax: 202-467-6541
E-mail: info@biomass.org
Web site: <http://www.biomass.org/>

American Bus Association

1100 New York Ave. NW, Suite 1050
Washington, DC 20005-3934
Contact: Peter Pantuso
Phone: 202-842-1645
Fax: 202-842-0850
Web site: <http://www.buses.org/>

American Public Transportation Association

1666 K St. NW, Suite 1100
Washington, DC 20006
Contact: William Millar
Phone: 202-496-4800
Fax: 202-496-4324
Web site: <http://www.apta.com/>

American Trucking Associations

2200 Mill Rd.
Alexandria, VA 22314
Contact: Vern Garner
Phone: 888-333-1759/703-838-1700
Fax: 703-838-0291
Web site: <http://www.truckline.com/>

California Air Resources Board (CARB)

Mobile Source Operations Division
P.O. Box 8001
El Monte, CA 91734-2301
Contact: Allen Lyons
Phone: 626-450-6152
Web site: <http://www.arb.ca.gov/>

California Energy Commission

1516 9th St., MS-29
Sacramento, CA 95814-5512
Contact: Jerry Wiens
Heavy-Duty Advanced Technology Dept.
Phone: 916-654-4649
E-mail: jwiens@energy.state.ca.us
Web site: <http://www.energy.ca.gov/>
CEC Alternative Fuels Hotline
Phone: 800-232-4685

California Fuel Cell Partnership

3300 Industrial Blvd., Suite 1000,
West Sacramento, CA 95691
Contact: Joe Irvin
Phone: 916-371-3870
Fax: 916-375-2008
Web site: <http://www.cafcp.org/>

California Natural Gas Vehicle Partnership

Contact: Norma Glover
Web site: <http://www.cngvp.org>

CALSTART/WestStart Advanced Vehicle Consortium

2180 E. Foothill Blvd.
Pasadena, CA 91107
Contact: John Boesel
Phone: 626-744-5600
Fax: 626-744-5610
Web site: <http://www.calstart.org/>

Clean Cities Program, U.S. Department of Energy

Forrestal Bldg. EE-10
1000 Independence Ave. SW
Washington, DC 20585-0121
Contact: Shelley Launey
Phone: 800-224-8437/703-934-3068
Fax: 703-586-1600
E-mail: ccities@nrel.gov
Web site: <http://www.ccities.doe.gov/>

Electric Drive Transportation Association (formerly Electric Vehicle Association of the Americas)

701 Pennsylvania Ave. NW, 3rd Floor
Washington, DC 20004
Contact: Kateri Callahan
Phone: 202-508-5995
Fax: 202-508-5924
Web site: <http://www.evaa.org/>

Electric Power Research Institute

3412 Hillview Ave.
Palo Alto, CA 94304-1395
Contact: Andra Michel, Bob Graham, Mark Duvall
Phone: 650-855-2556
Fax: 650-855-2737
Web site: <http://www.epri.com/>

Engine Manufacturers Association

Two N. LaSalle St., Suite 2200
Chicago, IL 60602
Contact: Jed R. Mandel
Phone: 312-827-8700
Fax: 312-827-8737
Web site: <http://www.engine-manufacturers.org/>

Gas Technology Institute

1700 South Mt. Prospect Rd.
Des Plaines, IL 60018
Contact: William E. Liss
Phone: 847-768-0753
Fax: 847-768-0501
Web site: <http://www.gastechnology.org/>

International Association for Natural Gas Vehicles

P.O. Box 28-590
Auckland, New Zealand
Contact: Dr. Garth Harris
Phone: 64-9-524-0945
Fax: 64-9-520-3122
Web site: <http://www.iangv.org/>

National Alternative Fuels Training Consortium

1460 Earl Core Rd.
Morgantown, WV 26505
Contact: Al Ebron
Phone: 304-293-7882
Fax: 304-293-6944
Web site: <http://naft.nrcce.wvu.edu/>

National Association of Fleet Managers Inc.

100 Wood Ave. South, Suite 310
Iselin, NJ 08830
Contact: David Lefevre
Phone: 732-494-8100
Fax: 732-494-6789
Web site: <http://www.nafa.org/>

National Biodiesel Board

3337A Emerald Lane
Jefferson City, MO 65110-4898
Contact: Joe Jobe
Phone: 573-635-3893 or 800-841-5849
Fax: 573-635-7913
Web site: <http://www.nbb.org/>

National Propane Gas Association (Washington Office)

1150 17th St. NW, Suite 310
Washington, DC 20036
Contact: Richard Roldan
Phone: 202-466-7200
Fax: 202-466-7205
Web site: <http://www.npga.org/>

National Renewable Energy Laboratory

1617 Cole Blvd.
Golden, CO 80401-3393
Contact: Margo Melendez
Phone: 303-275-4479
Fax: 303-275-4415
Web site: <http://www.nrel.gov/>

Natural Gas Vehicle Coalition

400 N. Capitol St. NW
Washington, DC 20001
Contact: Richard Kolodziej
Phone: 202-824-7360
Fax: 202-824-7367
Web site: <http://www.ngvc.org/>

Propane Education & Research Council

1776 K St. NW, Suite 204
Washington, DC 20006
Contact: Roy Willis
Phone: 202-452-8975
Fax: 202-452-9054
Web site: <http://www.propanecouncil.org/>

Propane Vehicle Council

1150 17th St. NW, Suite 310
Washington, DC 20036
Contact: Brian Feehan
Phone: 202-530-0479
Fax: 202-429-0977
E-mail: info@propanevehicle.org
Web site: <http://www.propanevehicle.org/>

Society of Automotive Engineers Inc. (Automotive Headquarters)

755 W. Big Beaver, Suite 1600
Troy, MI 48084
Phone: 248-273-2455
Fax: 248-273-2494
E-mail: automotive_hq@sae.org
Web site: <http://www.sae.org/>

U.S. Department of Energy Office of FreedomCAR and Vehicle Technologies

1000 Independence Ave. SW
Washington, DC 20585
Contact: Edward Wall
Phone: 202-586-0410
Web site: <http://www.eere.energy.gov/vehiclesandfuels>

U.S. Department of Transportation, Federal Highway Administration

400 7th St. SW
Washington, DC 20590
Phone: 202-366-0537
Web site: <http://www.fhwa.dot.gov/>

U.S. Department of Transportation, Federal Transit Administration

400 7th St. SW

Washington, DC 20590

Contact: Barbara Sisson, Office of Research,
Demonstration and Innovation

Phone: 202-366-4052

Web site: <http://www.fta.dot.gov/>

U.S. Environmental Protection Agency Office of Transportation and Air Quality

1200 Pennsylvania Ave NW, 6401A

Washington, DC 20460

Contact: Margo T. Oge

Phone: 202-564-1682

Fax: 202-564-1686

Web site: <http://www.epa.gov/otaq>

U.S. Fuel Cell Council

1625 K St. NW, Suite 725

Washington, DC 20006

Contact: Bob Rose

Phone: 202-293-5500

Fax: 202-785-4313

Web site: <http://www.usfcc.com/>

Vehicle and Engine Manufacturer Contact Information

Alternative Fuels Technologies

Contact: Juanita Diaz
Phone: 806-359-3327
E-mail: jdiaz@altlngusa.com

Arrow Engine Co.

Contact: Kavas Mistry
Phone: 800-331-3662
Fax: 918-592-1481
Web site: <http://www.arrowengine.com/>

Autocar (formerly Volvo GM Heavy Trucks)

Contact: Mike Poppovich
Phone: 765-489-5499, ext. 2501
Web site: <http://www.autocartruck.com/>

Blue Bird Corp.

Contact: Bill Fay
Phone: 800-486-7122
Fax: 478-474-9131
E-mail: wffay@blue-bird.com
Contact: Rusty Mitchell
Phone: 478-822-2262
E-mail: rusty.mitchell@blue-bird.com
Web site: <http://www.blue-bird.com/>

Champion Bus Inc./Thor Industries

Contact: Paul Allmacher
Phone: 800-776-4943
Fax: 810-724-1844
E-mail: cbisls2@tir.com
Web site: <http://www.championbus.com/>

Clean Air Power/Caterpillar

Contact: Kevin Campbell
Phone: 909-393-7933
Fax: 858-332-4991
Contact: Tara Schaeenman
Phone: 858-332-4830
E-mail: tschaenman@cleanairpower.com
Web site: <http://www.cleanairpower.com/>

Crane Carrier Co.

Contact: Richard Hugger
Phone: 918-836-1651
Fax: 918-832-7348
E-mail: rhugger@cranecarrier.com
Web site: <http://www.cranecarrier.com/>

Cummins Westport Inc.

Contact: Scott Davidson
Phone: 812-377-1734
Fax: 812-377-1309
E-mail: sdavidson@cumminswestport.com
Contact: Alexis Boudreau
Phone: 604-718-2012
E-mail: aboudreau@cumminswestport.com
Web site: <http://www.cumminswestport.com/>

Detroit Diesel Corp.

Contact: Chuck Yount
Phone: 313-592-3753
Fax: 313-592-8176
E-mail: charles.yount@detroitdiesel.com
Contact: Frank Stranzl
Phone: 313-592-5668
Fax: 313-592-8176
E-mail: frank.stanzl@detroitdiesel.com
Web site: <http://www.detroitdiesel.com/>

ELDorado National/Thor Industries

Contact: Gentry Shaw
Phone: 909-591-9557
Fax: 909-591-5285
E-mail: gshaw@eldorado-ca.com
Web site: <http://www.eldoradonational.com/>

Electric Vehicles International, LLC

Contact: Larry Pike
Phone: 800-618-3722
Fax: 765-643-3726
Web site: <http://www.evi-usa.com/>

Elgin Sweeper Co.

Contact: Brian Giles
Phone: 847-741-5370
Fax: 847-742-3035
E-mail: bgiles@elginsweeper.com
Web site: <http://www.elginsweeper.com/>

Freightliner Custom Chassis Corp.

Contact: Bryan Henke
Phone: 864-487-1700
Fax: 864-487-6400
E-mail: bryanhenke@freightliner.com
Web site: <http://www.freightlinerchassis.com/>

Freightliner Trucks

Contact: Stephen Morelli

Phone: 503-745-8324

E-mail: stevemorelli@freightliner.com

Contact: Dennis Manchester

Phone: 336-292-4190

E-mail: dennismanchester@freightliner.com

Contact: Scott Smith

Phone: 503-745-7420

E-mail: scottsmith@freightliner.com

Web site: <http://www.freightliner.com/>

Goshen Coach

Contact: Ed Parr

Phone: 574-206-7006

E-mail: emparr@goshencoach.com

Web site: <http://www.goshencoach.com/>

Heil Environmental Industries

Contact: Larry Stone

Phone: 800-824-4345

Fax: 423-855-3477

E-mail: lstone@heilco.com

Web site: <http://www.heilco.com/>

ISE Research Corp.

Contact: Tom Bartley

Phone: 619-287-8785

Fax: 619-287-8795

E-mail: fbartley@isecorp.com

Web site: <http://www.isereseach.com/>

Jasper Engines & Transmissions

Contact: Calvin Thorn

Phone: 800-827-7455, ext. 2027

Fax: 812-634-1820

E-mail: cthorn@jasperengines.com

Web site: <http://www.jasperengines.com/>

John Deere Power Systems

Contact: Tom Cummings

Phone: 319-292-5220

Fax: 319-292-5075

Web site: <http://www.deere.com/>

Kalmar Industries

Contact: Ron Gage

Phone: 800-982-1527 or 903-759-5490

Fax: 903-297-8166

Web site: <http://www.kalmarind.com/>

Kenworth Trucks

Contact: Evan Campbell

Phone: 206-828-5758

Contact: Brian Lindgren

Phone: 425-828-5678

E-mail: blindgren@paccar.com

Web site: <http://www.kenworth.com/>

Mack Trucks Inc.

Contact: Stephen Ginter

Phone: 610-709-3259

Fax: 610-709-2380

E-mail: steve_ginter@macktrucks.com

Web site: <http://www.macktrucks.com/>

**McNeilus Truck Manufacturing
(Division of Oshkosh Truck)**

Contact: Tom Harris

Phone: 507-374-6321

E-mail: tharris@mcneilusco.com

Contact: James Johnston

Phone: 507-374-6321

E-mail: dyerhart@mcneilusco.com

Web site: <http://www.mcneilusco.com/>

Molly Corp.

Contact: Stillman Bradish

Phone: 207-646-5908, ext. 15

Fax: 207-646-6497

E-mail: sbradish@mollycorp.com

Web site: <http://www.mollycorp.com/>

Motor Coach Industries

Contact: John Andrews

Phone: 847-285-2100

Fax: 847-285-2106

E-mail: marketing@mcicoach.com

Contact: Lori Pontarelli

E-mail: lori.pontarelli@mcicoach.net

Web site: <http://www.mcicoach.com/>

Neoplan USA Corp.

Contact: James Gaspard

Phone: 719-336-3256

Fax: 719-336-4201

E-mail: james.gaspard@neoplan.com

Web site: <http://www.neoplanusa.com/>

New Flyer of America

Contact: Roger Hristovski

Phone: 204-224-1251

Fax: 204-224-4214

E-mail: roger_hristovski@newflyer.com

Web site: <http://www.newflyer.com/>

North American Bus Industries

Contact: Richard Himes

Phone: 818-610-0330

Fax: 818-610-0335

E-mail: rich.himes@nabiusa.com

Web site: <http://www.nabiusa.com/>

Nova Bus Corp.

Contact: Jean-Pierre Baracat

Phone: 450-974-6052

Fax: 450-974-3001

E-mail: jean-pierre.baracat@volvo.com

Web site: <http://www.novabus.com/>

Optima Bus (formerly Chance Coach Inc.)

Contact: Steve Kratzer
Phone: 316-779-7710, ext. 344
Fax: 316-779-7727
Web site: <http://www.optimabus.com/>

Orion Bus Industries

Contact: Mark Brager
Phone: 905-403-7806
Fax: 905-403-8600
E-mail: mbrager@orionbus.com
Web site: <http://www.orionbus.com/>

Peterbilt Motors Co.

Contact: Bob Wood
Phone: 925-556-7469
Fax: 925-556-7473
E-mail: bob.wood@paccar.com
Contact: Jim Zito
Phone: 940-591-4084
Web site: <http://www.peterbilt.com/>

Solectria Corp.

Contact: Doug Alderton
Phone: 781-932-9009
E-mail: alderton@solectria.com
Web site: <http://www.solectria.com/>

Spartan Motors Chassis Inc.

Contact: Roy Englebrecht
Phone: 517-543-6400
Fax: 517-543-7728
E-mail: rfengelb@spartanmotors.com
Web site: <http://www.spartanmotors.com/>

Specialty Vehicles Inc.

Contact: Dale DeLine
Phone: 800-784-8726
Fax: 714-848-2114
E-mail: dale.deline@specialtyvehicles.com
Web site: <http://www.specialtyvehicles.com/>

Starcraft Bus

Contact: Art Henderson
Phone: 800-348-7440, ext. 202
E-mail: ahenderson@forestriverinc.com
Web site: <http://www.forestriverinc.com/>

Startrans Bus Division/Supreme Corp.

Contact: Samuel Craig
Phone: 877-258-1391
Fax: 574-642-4108
E-mail: sam.craig@startransbus.com
Web site: <http://www.startransbus.com/>

Sterling Truck Corp./Western Star Trucks

Contact: Jim Crowcroft
Phone: 440-269-5597
Fax: 440-269-5979
E-mail: jimcrowcroft@sterlingtrucks.com
Web site: <http://www.sterlingtrucks.com/>

Thomas Built Buses

Contact: Ken Heagecock
Phone: 336-889-4871
Fax: 336-841-5734
Web site: <http://www.thomasbus.com/>

TransTeq

Contact: Dale Hill
Phone: 303-382-1041
Fax: 303-297-3990
E-mail: dale.hill@transteq.com
Web site: <http://www.transteq.com/>

Trolley Enterprises Inc.

Contact: Joe Perez
Phone: 954-429-3100
Fax: 954-429-3307
Web site: <http://www.trolleyenterprises.com/>

TYMCO Inc.

Contact: Tom Roberts
Phone: 800-258-9626 or 254-799-5546
Fax: 254-799-2722
E-mail: video@tymco.net
Web site: <http://www.tymco.com/>

Wittke

Contact: Rob Gnatovich
Phone: 877-948-8531
Fax: 403-529-1821
E-mail: robert@wittke.com
Web site: <http://www.wittke.com/>

Alternative Fuel Medium and Heavy Engines

Alternative Fuels Technologies, LLC

Web site: <http://www.altfuelusa.com/>

Phone: 970-249-2954

Dealer locator Web site: N/A

Dealer locator phone: N/A

AFT 466 NG

Fuel type: CNG, LNG
Displacement: 7.6 L
Rated horsepower: 250 hp
Peak torque: 643 ft-lb

Emission certifications: CARB Low NO_x (1.4), EPA Heavy-Duty
Emission control device: Yes
Number of cylinders: 6
Dry weight: 800 lb
Applications: Truck, transit bus, school bus, off-road

Model description: Stoichiometric closed-loop, block-learn, three-way emission control catalyst technology; single point fuel management; turbocharger wastegate; SAE J 1939 laptop serial port technology.
Warranty information: Standard 2-yr parts and workmanship warranty. Other warranties available upon request of a given proposal/contract.

Baytech Corporation

Web site: <http://www.baytechcorp.com/>

Phone: 888-229-2447

Dealer locator Web site: N/A

Dealer locator phone: N/A

6.0 ILEV

Fuel type: CNG
Displacement: 6.0 L
Rated horsepower: 300 hp
Peak torque: 360 ft-lb

Emission certifications: EPA ILEV (Clean Fuel Fleet)
Emission control device: Yes
Number of cylinders: 8
Dry weight: N/A
Applications: Truck, shuttle bus

Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: GM/Chevy van cutaway, C/K trucks, Isuzu NPR, W3500, Workhorse chassis.
Warranty information: Same as base gasoline engine.

6.0 ULEV

Fuel type: CNG
Displacement: 6.0 L
Rated horsepower: 300 hp
Peak torque: 360 ft-lb

Emission certifications: EPA LEV (Clean Fuel Fleet)
Emission control device: Yes
Number of cylinders: 8
Dry weight: N/A
Applications: Truck, shuttle bus

Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: GM/Chevy van cutaway, C/K trucks, Isuzu NPR, W3500, Workhorse chassis.
Warranty information: Same as base gasoline engine.

5.7 ILEV

Fuel type: CNG
Displacement: 5.7 L
Rated horsepower: 211 hp
Peak torque: 275 ft-lb

Emission certifications: CARB Low NO_x (1.3), EPA ILEV (Clean Fuel Fleet)
Emission control device: Yes
Number of cylinders: 8
Dry weight: N/A
Applications: Truck, shuttle bus, street sweeper

Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: Isuzu NPR, GM W3500/4500, P chassis, Workhorse chassis, van cutaway.
Warranty information: Same as base gasoline engine.

<p>5.7 ULEV Fuel type: CNG Displacement: 5.7 L Rated horsepower: 211 hp Peak torque: 275 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.3), EPA ULEV (Clean Fuel Fleet) Emission control device: Yes Number of cylinders: 8 Dry weight: N/A Applications: Truck, shuttle bus, street sweeper</p>	<p>Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: Isuzu NPR, GM W3500/4500, P chassis, Workhorse chassis, van cutaway. Warranty information: Same as base gasoline engine.</p>
<p>4.3 ILEV Fuel type: CNG Displacement: 4.3 L Rated horsepower: 118 hp Peak torque: 184 ft-lb</p>	<p>Emission certifications: EPA ILEV (Clean Fuel Fleet) Emission control device: Yes Number of cylinders: 6 Dry weight: N/A Applications: Truck</p>	<p>Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: P chassis and Workhorse chassis, step vans. Warranty information: Same as base gasoline engine.</p>
<p>Clean Air Power/Caterpillar Web site: http://www.cleanairpower.com/ Phone: 858-332-4800 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>Dual-Fuel C12 Fuel type: CNG, LNG Displacement: 12.0 L Rated horsepower: 410 hp Peak torque: 1,250 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (2.5) Emission control device: Yes Number of cylinders: 6 Dry weight: 2,035 lb Applications: Truck, transit bus, school bus, off-road</p>	<p>Model description: The Dual-Fuel system operates primarily on natural gas with diesel fuel acting as the ignition source; if the natural gas fuel supply is interrupted, the engine can continue to operate on diesel for safe return to a fueling site. Warranty information: Warranty period from date of delivery to the first user is the longer of 12 months, or the balance of the limited warranty provided by Caterpillar, Inc. on the engine for which the Dual Fuel system is being supplied; provided, however, that no such warranty period exceeds 24 months.</p>
<p>Dual-Fuel C10 Fuel type: CNG, LNG Displacement: 10.3 L Rated horsepower: 315 hp Peak torque: 1,050 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (2.5) Emission control device: Yes Number of cylinders: 6 Dry weight: 2,015 lb Applications: Truck, transit bus, school bus, off-road</p>	<p>Model description: The Dual-Fuel system operates primarily on natural gas with diesel fuel acting as the ignition source; if the natural gas fuel supply is interrupted, the engine can continue to operate on diesel for safe return to a fueling site. Warranty information: Warranty period from date of delivery to the first user is the longer of 12 months, or the balance of the limited warranty provided by Caterpillar, Inc. on the engine for which the Dual Fuel system is being supplied; provided, however, that no such warranty period exceeds 24 months.</p>

<p>Dual-Fuel 3126 Fuel type: CNG, LNG Displacement: 7.2 L Rated horsepower: 250 hp Peak torque: 660 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (2.5) Emission control device: Yes Number of cylinders: 6 Dry weight: 1,450 lb Applications: Truck, transit bus, school bus, trolley, shuttle bus, off-road</p>	<p>Model description: The Dual-Fuel system operates primarily on natural gas with diesel fuel acting as the ignition source; if the natural gas fuel supply is interrupted, the engine can continue to operate on diesel for safe return to a fueling site. Warranty information: 36 mo/150,000 mi (243,000 km)/3,600 operating hours, whichever occurs first after date of delivery to the first user.</p>
<p>Cummins Westport Inc. Web site: http://www.cumminswestport.com/ Phone: 604-718-8100 Dealer locator Web site: http://www.cumminswestport.com/ Dealer locator phone: 604-718-8100</p>		
<p>B Gas Plus—BG 230 Fuel type: CNG, LNG Displacement: 5.9 L Rated horsepower: 230 hp Peak torque: 500 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Emission control device: Yes Number of cylinders: 6 Dry weight: 1,018 lb Applications: Truck, school bus, trolley, shuttle bus, yard spotter, street sweeper</p>	<p>Model description: Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. Warranty information: Bus: 2-yr full warranty with no mileage limitations extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.</p>
<p>B Gas Plus—BG 195 Fuel type: CNG, LNG Displacement: 5.9 L Rated horsepower: 195 hp Peak torque: 420 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Emission control device: Yes Number of cylinders: 6 Dry weight: 1,018 lb Applications: Truck, school bus, trolley, shuttle bus, yard spotters, street sweeper</p>	<p>Model description: Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. Warranty information: Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.</p>
<p>B LPG Plus—BG 195 Fuel type: LPG Displacement: 5.9 L Rated horsepower: 195 hp Peak torque: 420 ft-lb</p>	<p>Emission certifications: EPA Heavy-Duty Emission control device: Yes Number of cylinders: 6 Dry weight: N/A Applications: Truck, school bus, trolley, shuttle bus, yard spotter, street sweeper</p>	<p>Model description: Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on HD-10 propane (LPG). Warranty information: Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.</p>
<p>B Gas Plus—BG 200 Fuel type: CNG, LNG Displacement: 5.9 L Rated horsepower: 200 hp Peak torque: 465 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Emission control device: Yes Number of cylinders: 6 Dry weight: 1,018 lb Applications: Truck, school bus, trolley, shuttle bus, yard spotter, street sweeper</p>	<p>Model description: Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. Warranty information: Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.</p>

<p>C Gas Plus—CG 250 Fuel type: CNG, LNG Displacement: 8.3 L Rated horsepower: 250 hp Peak torque: 660 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Emission control device: Yes Number of cylinders: 6 Dry weight: 1,330 lb Applications: Truck, school bus, trolley, shuttle bus, refuse truck</p>	<p>Model description: Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. Warranty information: Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr/100,000 mi full warranty.</p>
<p>C Gas Plus—CG 275 Fuel type: CNG, LNG Displacement: 8.3 L Rated horsepower: 275 hp Peak torque: 750 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Emission control device: Yes Number of cylinders: 6 Dry weight: 1,330 lb Applications: Truck, transit bus, school bus, shuttle bus, refuse truck</p>	<p>Model description: Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. Warranty information: Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr/100,000 mi full warranty.</p>
<p>C Gas Plus—CG 280 Fuel type: CNG, LNG Displacement: 8.3 L Rated horsepower: 280 hp Peak torque: 850 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Emission control device: Yes Number of cylinders: 6 Dry weight: 1,330 lb Applications: Truck, transit bus, school bus, refuse truck</p>	<p>Model description: Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. Warranty information: Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr/100,000 mi full warranty.</p>
<p>Detroit Diesel Corp. Web site: http://www.detroitdiesel.com/ Phone: 313-592-5000 Dealer locator Web site: http://www.detroitdiesel.com/ Dealer locator phone: 313-592-5000</p>		
<p>Series 50G Fuel type: CNG, LNG Displacement: 8.5 L Rated horsepower: 275 hp Peak torque: 900 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (1.2), EPA Heavy-Duty Emission control device: No Number of cylinders: 4 Dry weight: 2,479 lb Applications: Transit bus</p>	<p>Model description: Certified to 1.2g/hp-h NO_x + NMHC. Warranty information: 2-yr/unlimited miles.</p>
<p>Jasper Alternate Fuels Web site: http://www.jasperengines.com/ Phone: 800-827-7455 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>Jasper 466 Fuel type: CNG Displacement: 7.6 L Rated horsepower: 250 hp Peak torque: 632 ft-lb</p>	<p>Emission certifications: CARB Low NO_x (2.5), EPA ULEV (Clean Fuel Fleet) Emission control device: Yes Number of cylinders: 6 Dry weight: 1,600 lb Applications: Truck, transit bus, school bus, trolley, shuttle bus</p>	<p>Model description: AFT 466 natural gas assembly, advanced air delivery system, portal injection, remanufactured for Alternative Dual Fuels Inc. (806-355-5679). Warranty information: See http://www.jasperengines.com/</p>

John Deere Power SystemsWeb site: <http://www.johndeere.com/>

Phone: 319-292-5220

Dealer locator Web site: <http://www.johndeere.com/>

Dealer locator phone: N/A

6081H 250

Fuel type: CNG
 Displacement: 8.1 L
 Rated horsepower: 250 hp
 Peak torque: 800 ft-lb

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Emission control device: Yes
Number of cylinders: 6
Dry weight: 1,470 lb
Applications: School bus

Model description: Adaptive-learn system maintains peak performance. Closed-loop control system monitors combustion efficiency. Oil change intervals up to 25,000 miles.
Warranty information: School bus applications: 5 yr or 100,000 mi. Commercial bus: 2 yr, unlimited miles. Extended warranty also available.

6081H 275

Fuel type: CNG
 Displacement: 8.1 L
 Rated horsepower: 275 hp
 Peak torque: 800 ft-lb

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Emission control device: Yes
Number of cylinders: 6
Dry weight: 1,470 lb
Applications: Refuse truck

Model description: Adaptive-learn system maintains peak performance. Closed-loop control system monitors combustion efficiency. Oil change intervals up to 25,000 miles.
Warranty information: Refuse truck: 2 yr or 150,000 mi, whichever occurs first. Extended warranty is also available.

6081H 280

Fuel type: CNG
 Displacement: 8.1 L
 Rated horsepower: 280 hp
 Peak torque: 900 ft-lb

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Emission control device: Yes
Number of cylinders: 6
Dry weight: 1,470 lb
Applications: Transit bus, refuse truck

Model description: Adaptive-learn system monitors peak performance. Closed-loop control system monitors combustion efficiency. Oil change intervals up to 25,000 miles.
Warranty information: Transit bus: 2 years, unlimited miles, whichever occurs first. Refuse truck: 2 yr or 150,000 mi, whichever occurs first. Extended warranty is also available.

Mack Trucks, Inc.Web site: <http://www.macktrucks.com/>

Phone: 610-709-3011

Dealer locator Web site:

<http://www.macktrucks.com/default.aspx?pageid=8>

Dealer locator phone: N/A

Eco-Tech E7G 325

Fuel type: CNG, LNG
 Displacement: 12 L
 Rated horsepower: 325 hp
 Peak torque: 1,050 ft-lb

Emission certifications: CARB Low NO_x (2.4), EPA Heavy-Duty
Emission control device: No
Number of cylinders: 6
Dry weight: 2,100 lb
Applications: Truck

Model description: Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with wastegate turbo for excellent fuel economy.
Warranty information: 3-yr/300,000-mi warranty with 5-yr/500,000-mi warranty on major components. Custom warranties available.

Natural Gas and Propane Medium and Heavy Vehicles

Autocar LLC

Web site: <http://www.autocartruck.com/>

Phone: 765-489-5499

Dealer locator Web site: N/A

Dealer locator phone: N/A

Xpeditor

Applications: Truck
Fuel type: CNG
Engine makes/models: Cummins Westport C Gas Plus—CG 280
Transmission makes/models: Allison MD/HD
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 66,000 lb
Seating capacity: 2

Model description: Fuel tanks provided by the body manufacturer, not Autocar; capacity and driving range cannot be addressed.
Warranty information: Contact Herb Cooper, Service and Warranty Manager (765-489-6039) or Barry Bledsoe, Service and Warranty Administrator (765-489-6032).

Blue Bird Corp.

Web site: <http://www.blue-bird.com/>

Phone: 478-822-2262

Dealer locator Web site: <http://www.blue-bird.com/distributor.htm>

Dealer locator phone: N/A

CSFE Commercial Series

Applications: Transit bus, shuttle bus
Fuel type: CNG, LNG
Engine makes/models: Cummins Westport B Gas Plus—BG 230
Transmission makes/models: Allison MT643, B300, B300R
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 30,000 lb
Seating capacity: 49

Model description: Front-engine transit or shuttle bus.
Warranty information: N/A

Xcel 102

Applications: Transit bus, shuttle bus
Fuel type: CNG
Engine makes/models: Deere 6081H 250
Transmission makes/models: Allison
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 36,200 lb
Seating capacity: 49

Model description: Transit or shuttle bus in lengths of 30, 35, and 40 ft with wheelbases of 150, 217, and 273 in.
Warranty information: N/A

Ultra LF Series

Applications: Transit bus, shuttle bus
Fuel type: CNG
Engine makes/models: Cummins Westport B Gas Plus—BG 230
Transmission makes/models: Allison LCT 200 Series
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 28,660 lb
Seating capacity: 35

Model description: Low-floor commercial transit or shuttle bus available in 30 ft (with 157-in wheelbase) and 35 ft (with 222-in wheelbase).
Warranty information: N/A

Micro Bird

Applications: Shuttle bus, school bus
Fuel type: CNG
Engine makes/models: Ford VRG 220
Transmission makes/models: N/A
Transmission type: Automatic

Emission certifications: CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet)
Fuel capacity: 2,250 scf
Estimated driving range: N/A
GVW: 14,050 lb
Seating capacity: 30

Model description: Student transport shuttle on Ford E-450 super-duty chassis. Ideal for special-needs transportation. Rust-free aluminum body and roof panels.
Warranty information: N/A

<p>CS Series Rear-Engine Applications: Transit bus, shuttle bus Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 230; Deere 6081H 250, 6081H 275 Transmission makes/models: Allison AT545, MT643, B300, B300R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: 31,000 lb Seating capacity: 49</p>	<p>Model description: Available in 32- to 39-ft transit or shuttle bus. Warranty information: N/A</p>
<p>All American RE Applications: School bus Fuel type: CNG Engine makes/models: Deere 6081H 250 Transmission makes/models: Allison 2000 Series Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: N/A Seating capacity: 84</p>	<p>Model description: School bus available in 66-passenger (with 189-in. wheelbase) or 84-passenger (with 273-in. wheelbase) models. Warranty information: N/A</p>
<p>Champion Bus, Inc. Phone: 800-776-4943 Web site: http://www.championbus.com/ Dealer locator Web site: N/A Dealer locator phone: 810-724-6474</p>		
<p>CTS Applications: Transit bus, shuttle bus Fuel type: LNG Engine makes/models: Cummins Westport B Gas Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 36 gal Estimated driving range: 300 mi GVW: 25,500 lb Seating capacity: 32</p>	<p>Model description: Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. Warranty information: Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).</p>
<p>CTS Applications: Transit bus, shuttle bus Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 5,200 scf Estimated driving range: N/A GVW: 25,500 lb Seating capacity: 32</p>	<p>Model description: Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. Warranty information: Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).</p>
<p>CTS Applications: Transit bus, shuttle bus Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: 100 gal Estimated driving range: 300 mi GVW: 25,500 lb Seating capacity: 32</p>	<p>Model description: Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. Warranty information: Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).</p>
<p>Defender Applications: Transit bus, shuttle bus Fuel type: CNG Engine makes/models: GM VORTEC 6000 Transmission makes/models: Allison 1000 Transmission type: Automatic</p>	<p>Emission certifications: EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 3,596 scf Estimated driving range: 175 mi GVW: 19,500 lb Seating capacity: 32</p>	<p>Model description: Medium-duty cutaway model available on GM cutaway chassis. Built to last 7-10 yr in severe duty service. Available to meet all ADA requirements. Warranty information: Chassis: 3-yr/36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).</p>

<p>CTS Trolley Applications: Trolley Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 230 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 5,200 scf Estimated driving range: N/A GVW: 25,500 lb Seating capacity: 32</p>	<p>Model description: Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. Warranty information: Body: 5-year/75,000 miles. Contact: Dick Cutcher (810-724-6474).</p>
<p>CTS Trolley Applications: Trolley Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: 100 gal Estimated driving range: N/A GVW: 25,500 lb Seating capacity: 32</p>	<p>Model description: Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. Warranty information: Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).</p>
<p>Challenger Applications: Transit bus, shuttle bus Fuel type: CNG Engine makes/models: Ford VRG 220, GM VORTEC 6000 Transmission makes/models: GM 4L80E, Ford 4R100 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 3,596 scf Estimated driving range: 175 mi GVW: 12,300 lb Seating capacity: 25</p>	<p>Model description: Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. Warranty information: Chassis: 3-yr/36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).</p>
<p>Challenger Applications: Transit bus, shuttle bus Fuel type: LPG Engine makes/models: Ford VRG 330 Transmission makes/models: GM 4L80E, Ford 4R100 Transmission type: Automatic</p>	<p>Emission certifications: N/A Fuel capacity: 68 gal Estimated driving range: 300 mi GVW: 12,300 lb Seating capacity: 25</p>	<p>Model description: Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. Warranty information: Chassis: 3-yr/36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).</p>
<p>Crusader Applications: Transit bus, shuttle bus Fuel type: LPG Engine makes/models: Ford VRG 220, GM VORTEC 6000 Transmission makes/models: GM 4L80E, Ford 4R100 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 68 gal Estimated driving range: 300 mi GVW: 14,050 lb Seating capacity: 25</p>	<p>Model description: Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. Warranty information: Chassis: 3-yr/36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).</p>
<p>Crusader Applications: Transit bus, shuttle bus Fuel type: CNG Engine makes/models: Ford VRG 220, GM VORTEC 6000 Transmission makes/models: GM 4L80E, Ford 4R100 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 3,596 scf Estimated driving range: 175 mi GVW: 14,050 lb Seating capacity: 25</p>	<p>Model description: Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. Warranty information: Chassis: 3-yr/36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).</p>

Crane Carrier CompanyWeb site: <http://www.cranecarrier.com/>

Phone: 918-836-1651

Dealer locator Web site: <http://www.cranecarrier.com/>

Dealer locator phone: N/A

<p>LCF Applications: Truck Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 280; Deere 6081H 275, 6081H 280 Transmission makes/models: Allison MD3560P, HD4560P Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 9,625 scf Estimated driving range: N/A GVW: 66,000 lb Seating capacity: 2</p>	<p>Model description: Low cab forward, tilt cab designed for refuse collection. Heavy-duty chassis with left, right, or dual steering. Front-mounted radiator, under cab. Single or tandem rear drive axles. Warranty information: Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.</p>
<p>LCF Applications: Truck Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 Transmission makes/models: Allison MD3560P, HD4560P Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 18,563 Estimated driving range: N/A GVW: 66,000 lb Seating capacity: 2</p>	<p>Model description: Low cab forward, tilt cab designed for refuse collection. Heavy-duty chassis with left, right, or dual steering. Front-mounted radiator, under cab. Single or tandem rear drive axles. Warranty information: Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.</p>
<p>LET 2 Applications: Truck Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 Transmission makes/models: Allison MD3560P, HD4560P Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: 66,000 lb Seating capacity: 5</p>	<p>Model description: Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty chassis with left, right, or dual steering. Remote mounted radiator, above engine and behind cab. Single or tandem rear drive axles. Warranty information: Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.</p>
<p>LWT Applications: Truck Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 275 Transmission makes/models: Allison MD3560P, HD4560P Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: 200 mi GVW: 60,000 lb Seating capacity: 2</p>	<p>Model description: Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight reducing aluminum components. Tank(s) on side of frame. Single or tandem rear drive axles. Warranty information: Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.</p>

<p>LWT Applications: Truck Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 Transmission makes/models: Allison MD3560P, HD4560P Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 9,625 scf Estimated driving range: 200 mi GVW: 60,000 lb Seating capacity: 2</p>	<p>Model description: Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight reducing aluminum components. Tank(s) on side of frame, above frame behind cab or on refuse body. Single or tandem rear-drive axles. Warranty information: Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.</p>
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<p>El Dorado National Web site: http://www.enconline.com/</p>	<p>Phone: 800-362-1287 Dealer locator Web site: N/A Dealer locator phone: N/A</p>
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<p>MST 2 Applications: Transit bus Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison Series 2000 Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: 100 gal Estimated driving range: 300 mi GVW: 25,500 lb Seating capacity: 28</p>	<p>Model description: 26-30 ft conventional floor body on chassis. Front engine. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
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<p>MST 2 Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 230 Transmission makes/models: Allison Series 2000 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 7,462 scf Estimated driving range: 200 mi GVW: 25,500 lb Seating capacity: 28</p>	<p>Model description: 26-30 ft conventional floor body on chassis. Front engine. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
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<p>Transmark Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 250 Transmission makes/models: Allison B300R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 12,092 scf Estimated driving range: 300 mi GVW: 29,800 lb Seating capacity: 32</p>	<p>Model description: 30-32 ft conventional floor, body on chassis. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
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<p>Transmark Applications: Transit bus Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison B300R Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: 84 gal Estimated driving range: 300 mi GVW: 29,800 lb Seating capacity: 32</p>	<p>Model description: 30-32 ft conventional floor, body on chassis. Rear engine. Front control. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
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<p>Transmark Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B300R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 112 gal Estimated driving range: 300 mi GVW: 29,800 lb Seating capacity: 32</p>	<p>Model description: 30-32 ft conventional floor, body on chassis. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
<p>EZ-Rider 2 Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 250 Transmission makes/models: Allison B300R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 12,092 scf Estimated driving range: 300 mi GVW: 31,800 lb Seating capacity: 29</p>	<p>Model description: 30-ft low-floor. Rear engine. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
<p>EZ-Rider 2 Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B300R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 210 gal Estimated driving range: 250 mi GVW: 34,000 lb Seating capacity: 29</p>	<p>Model description: 30-ft low-floor. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
<p>Axess Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B400R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 24,184 scf Estimated driving range: 400 mi GVW: 43,420 lb Seating capacity: 43</p>	<p>Model description: Low-floor, 40-ft transit bus. Roof-mounted CNG tanks. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
<p>Axess Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B400R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 238 gal Estimated driving range: 400 mi GVW: 43,420 lb Seating capacity: 43</p>	<p>Model description: 40-ft, low-floor. Rear engine. Warranty information: Contact Robert Mendoza (909-591-9557).</p>
<p>Elgin Sweeper Company Phone: 847-741-5370 Web site: http://www.elginsweeper.com/ Dealer locator Web site: http://www.elginsweeper.com/ Dealer locator phone: 847-741-5370</p>		
<p>Broom Bear Applications: Street sweeper Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 250 Transmission makes/models: Allison MD3560 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 7,280 scf Estimated driving range: N/A GVW: 33,000 lb Seating capacity: 2</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 7,280 scf Estimated driving range: N/A GVW: 33,000 lb Seating capacity: 2</p>

<p>Broom Bear Applications: Street sweeper Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 250 Transmission makes/models: Allison MD3560 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: 33,000 lb Seating capacity: 2</p>	<p>Model description: Mechanical broom-type street sweeper. 10-ft wide sweep path, 4.5-yd³ hopper with variable height side dump from ground level to 10-ft, 2-in. Fully dual control FL70 conventional chassis. Warranty information: One year parts and labor.</p>
<p>Crosswind Applications: Street sweeper Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 7,839 scf Estimated driving range: N/A GVW: 32,000 lb Seating capacity: 2</p>	<p>Model description: Regenerative air-type street sweeper, 12-ft wide sweep path, 8-yd³ rear dump hopper. Fully dual control. SC8000 cab-over chassis or FL70 conventional chassis. Warranty information: One year parts and labor.</p>
<p>Crosswind Applications: Street sweeper Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: 32,000 lb Seating capacity: 2</p>	<p>Model description: Regenerative air-type street sweeper, 12-ft wide sweep path, 8-yd³ rear dump hopper. Fully dual control. SC8000 cab-over chassis or FL70 conventional chassis. Warranty information: One year parts and labor.</p>
<p>Eagle Applications: Street sweeper Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 7,839 scf Estimated driving range: N/A GVW: 32,000 lb Seating capacity: 2</p>	<p>Model description: Mechanical broom-type sweeper, 10-ft wide sweep path, 4.5-yd³ hopper with variable height, side dump from ground level to 10-ft, 2-in Fully dual control SC8000 cab-over chassis or FL70 conventional chassis. Warranty information: One year parts and labor.</p>
<p>Eagle Applications: Street sweeper Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: 32,000 lb Seating capacity: 2</p>	<p>Model description: Mechanical broom-type sweeper, 10-ft wide sweep path, 4.5-yd³ hopper with variable height, side dump from ground level to 10-ft, 2-in Fully dual control SC8000 cab-over chassis or FL70 conventional chassis. Warranty information: One-year parts and labor.</p>
<p>Ford Motor Co. Web site: http://www.fleet.ford.com/ Phone: 877-258-3835 Dealer locator Web site: http://www.fleet.ford.com/ Dealer locator phone: 877-258-3835</p>		
<p>E-450 Cutaway Applications: Shuttle bus, truck, school bus Fuel type: CNG Engine makes/models: Ford VRG 220 Transmission makes/models: Ford Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet) Fuel capacity: 2,313 scf Estimated driving range: 150 mi GVW: 14,050 lb Seating capacity: N/A</p>	<p>Model description: Super-duty cutaway for shuttle, small school bus, and small truck applications. Available with 158-in. and 176-in. wheelbase. Warranty information: Standard new vehicle limited warranty.</p>

Freightliner Custom Chassis Web site: http://www.freightlinerchassis.com/		Phone: 864-487-1700 Dealer locator Web site: N/A Dealer locator phone: N/A
MB55 Commercial Bus Chassis Applications: Transit bus, shuttle bus, trolley Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 195 Transmission makes/models: Allison 2000 Series Transmission type: Automatic	Emission certifications: CARB Low NO _x (1.8), EPA Heavy-Duty Fuel capacity: 6,000 scf Estimated driving range: 300 mi GVW: 25,500 lb Seating capacity: N/A	Model description: The MB55 offers a 4- and 5-tank CNG option. Warranty information: Contact 1-800-FTL-HELP.
MB55 Commercial Bus Chassis Applications: Transit bus, shuttle bus, trolley Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison 2000 Series Transmission type: Automatic	Emission certifications: EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: 300 mi GVW: 25,500 lb Seating capacity: N/A	Model description: N/A Warranty information: Contact 1-800-FTL-HELP.
General Motors Web site: http://www.gm.com/		Phone: N/A Dealer locator Web site: N/A Dealer locator phone: N/A
GMC Savana Cutaway (dedicated) Applications: Shuttle bus, truck Fuel type: CNG Engine makes/models: GM VORTEC 6000 Transmission makes/models: N/A Transmission type: Automatic	Emission certifications: EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: 320 mi GVW: 12,300 lb Seating capacity: N/A	Model description: Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. Onboard fuel capacity of 29.7 GGE @ 3,600 psi. Warranty information: Standard.
GMC Savana Cutaway (bi-fuel) Applications: Shuttle bus, truck Fuel type: CNG Engine makes/models: GM VORTEC 6000 Bi-fuel Transmission makes/models: N/A Transmission type: Automatic	Emission certifications: EPA ULEV (Clean Fuel Fleet) Fuel capacity: N/A Estimated driving range: N/A GVW: 12,300 lb Seating capacity: N/A	Model description: Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. CNG/gasoline engine. Warranty information: Standard.
Chevrolet Express Cutaway (dedicated) Applications: Shuttle bus, truck Fuel type: CNG Engine makes/models: GM VORTEC 6000 Transmission makes/models: N/A Transmission type: Automatic	Emission certifications: EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: 320 mi GVW: 12,300 lb Seating capacity: N/A	Model description: Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. Onboard fuel capacity of 29.7 GGE @ 3,600 psi. Warranty information: Standard.

<p>Chevrolet Express Cutaway (bi-fuel) Applications: Shuttle bus, truck Fuel type: CNG Engine makes/models: GM VORTEC 6000 Bi-fuel Transmission makes/models: N/A Transmission type: Automatic</p>	<p>Emission certifications: EPA ULEV (Clean Fuel Fleet) Fuel capacity: N/A Estimated driving range: N/A GVW: 12,300 lb Seating capacity: N/A</p>	<p>Model description: Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. CNG/gasoline engine. Warranty information: Standard.</p>
<p>Goshen Coach Phone: 574-264-7511 Web site: http://www.goshencoach.com/ Dealer locator Web site: http://www.goshencoach.com/ Dealer locator phone: N/A</p>		
<p>GC 2 CNG Applications: Shuttle bus Fuel type: CNG Engine makes/models: Ford VRG 220 Transmission makes/models: Ford 4R100 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet) Fuel capacity: 15,400 scf Estimated driving range: 200 mi GVW: 14,050 lb Seating capacity: 15</p>	<p>Model description: Shuttle bus built on Ford E-450 CNG chassis. Goshen Coach bus has been crash-tested and tested at the Federal Bus Testing Facility (Altoona test) in the 7-yr/ 200,000 mi category. Warranty information: Contact Marsha Hunt (574-264-7511).</p>
<p>EuroShuttle Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 230 Transmission makes/models: Allison 2000 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 20,625 scf Estimated driving range: 200 mi GVW: 25,500 lb Seating capacity: 26</p>	<p>Model description: Front-engine rear-drive medium-duty bus built on a Freightliner MB55 CNG chassis. Warranty information: Contact Marsha Hunt (574-264-7511).</p>
<p>Kalmar Industries Corp. Phone: 903-759-5490 Web site: http://www.magnumterminaltractor.com/ Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>PT-122/ST102 Applications: Terminal tractor Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison MD 3060 Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: 46 gal Estimated driving range: 200 mi GVW: 17,000 lb Seating capacity: 1</p>	<p>Model description: Purpose-built vehicle for moving travelers and containers. Warranty information: Contact Ricardo Jaramillo (903-759-5490).</p>
<p>Mack Trucks, Inc. Phone: 610-709-3011 Web site: http://www.macktrucks.com/ Dealer locator Web site: http://www.macktrucks.com/default.aspx?pageid=8 Dealer locator phone: N/A</p>		
<p>MR Applications: Truck, MR Tractor Fuel type: LNG Engine makes/models: Mack Eco-Tech E7G-325 Transmission makes/models: Allison HD4560 5 or 6 speed Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (2.4), EPA Heavy-Duty Fuel capacity: 150 gal Estimated driving range: 300 mi GVW: 80,000 lb Seating capacity: 2</p>	<p>Model description: For refuse, concrete pumping, fuel oil delivery, and block truck applications. Warranty information: Engine: 3-yr/ 300,000-mi; major components: 5-yr/500,000-mi; custom warranties available with the best standard warranties in the industry.</p>

<p>LE Applications: Truck Fuel type: LNG Engine makes/models: Mack Eco-Tech E7G-325 Transmission makes/models: Allison HD4560 5 or 6 speed Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (2.4), EPA Heavy-Duty Fuel capacity: 150 gal Estimated driving range: 300 mi GVW: 80,000 lb Seating capacity: 2</p>	<p>Model description: Dual steer refuse chassis. Available options include front, side, and rear load refuse bodies. The LE chassis is also available with a drop frame for manual side loading. LNG fuel system is factory-installed option. Warranty information: Engine: 3-yr/300,000-mi; major components: 5-yr/500,000-mi; custom warranties available with the best standard warranties in the industry.</p>
<p>Neoplan USA Corporation Web site: http://www.neoplanusa.com/</p>		<p>Phone: 719-336-3256 Dealer locator Web site: N/A Dealer locator phone: N/A</p>
<p>AN 460LF Applications: Transit bus, commuter bus Fuel type: CNG Engine makes/models: Detroit Diesel Series 60G 400, Series 60G 330 Transmission makes/models: Allison B500 R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (2.5), EPA Heavy-Duty Fuel capacity: 22,000 scf Estimated driving range: 300 mi GVW: 67,000 lb Seating capacity: 57</p>	<p>Model description: 60-ft, low-floor; commuter or city transit interior. Articulated. Warranty information: Standard.</p>
<p>AN 440LF Applications: Transit bus, airport shuttle Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 22,000 scf Estimated driving range: 300 mi GVW: 42,000 lb Seating capacity: 36</p>	<p>Model description: 40-ft, low-floor. Warranty information: Standard.</p>
<p>New Flyer of America Web site: http://www.newflyer.com/</p>		<p>Phone: 204-224-1251 Dealer locator Web site: http://www.newflyer.com/ Dealer locator phone: N/A</p>
<p>C30LF Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 250 Transmission makes/models: Allison B300R Transmission type: Either</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 12,092 scf Estimated driving range: 350 mi GVW: 38,000 lb Seating capacity: 25</p>	<p>Model description: The C30LF is a 30-ft, heavy-duty low-floor transit bus that has been fully tested, proven and is ready to move people to their destinations through any temperature or weather extreme found in North America. Warranty information: Standard warranties apply with option of purchasing extended warranty.</p>
<p>C35LF Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R Transmission type: Either</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 18,138 scf Estimated driving range: 350 mi GVW: 39,500 lb Seating capacity: 30</p>	<p>Model description: The C35LF is a 35-ft heavy-duty low-floor transit bus that has been designed to reduce emissions in a durable and proven platform. Warranty information: Standard warranties apply with option of purchasing extended warranty.</p>

<p>C40LF Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R Transmission type: Either</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 21,161 scf Estimated driving range: 350 mi GVW: 40,600 lb Seating capacity: 40</p>	<p>Model description: The C40LF is a 40-ft heavy-duty transit vehicle that set the standard in the low floor urban transit industry. Warranty information: Standard warranties apply with option of purchasing extended warranty.</p>
<p>North American Bus Industries, Inc. (NABI) Phone: 818-610-0330 Web site: http://www.nabiusa.com/ Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>35 LFW Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 18,000 scf Estimated driving range: 350 mi GVW: 41,150 lb Seating capacity: 30</p>	<p>Model description: 35-ft low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>35 LFW Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 408 gal Estimated driving range: 350 mi GVW: 41,150 lb Seating capacity: 30</p>	<p>Model description: 35-ft low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>40 LFW Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 250, C Gas Plus—CG 275, C Gas Plus—CG 280; Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 24,000 scf Estimated driving range: 350 mi GVW: 41,150 lb Seating capacity: 40</p>	<p>Model description: 40-ft, low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>40 LFW Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 408 gal Estimated driving range: 350 mi GVW: 41,150 Seating capacity: 40</p>	<p>Model description: 40-ft low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>

<p>40C-LFW Applications: Transit bus Fuel type: LNG Engine makes/models: C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 408 gal Estimated driving range: 350 mi GVW: 39,150 lb Seating capacity: 40</p>	<p>Model description: 40-ft, all-composite low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>40C-LFW Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 24,000 scf Estimated driving range: 350 mi GVW: 39,150 lb Seating capacity: 40</p>	<p>Model description: 40-ft all composite low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>45C-LFW Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 24,000 scf Estimated driving range: 350 mi GVW: 41,720 lb Seating capacity: 46</p>	<p>Model description: 45-ft, all-composite, low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>45C-LFW Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G Transmission makes/models: Allison B400R, ZF HP592 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 408 gal Estimated driving range: 350 mi GVW: 41,720 lb Seating capacity: 46</p>	<p>Model description: 45-ft, all-composite, low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>60 LFW Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B500 R, ZF HP602 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 27,088 scf Estimated driving range: 350 mi GVW: 65,000 lb Seating capacity: 60</p>	<p>Model description: 60-ft, low-floor, heavy-duty articulated city transit bus with up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>60 LFW Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B500R, ZF HP602 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 408 gal Estimated driving range: 350 mi GVW: 65,000 lb Seating capacity: 60</p>	<p>Model description: 60-ft, low-floor, heavy-duty articulated city transit bus with up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>

<p>60C-LFW Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B500 R, ZF HP602 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 27,088 scf Estimated driving range: 350 mi GVW: 65,000 lb Seating capacity: 60</p>	<p>Model description: 60-ft, BRT low-floor, heavy-duty articulated city transit bus with rail-like styling. Up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>60C-LFW Applications: Transit bus Fuel type: LNG Engine makes/models: Cummins Westport C Gas Plus—CG 280 Transmission makes/models: Allison B500 R, ZF HP602 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 408 gal Estimated driving range: 350 mi GVW: 65,000 lb Seating capacity: 60</p>	<p>Model description: 60-ft, BRT low-floor, heavy-duty articulated city transit bus with rail-like styling. Up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. Warranty information: Provided upon request.</p>
<p>Optima Bus Corp. Web site: http://www.optimabus.com/ Phone: 316-779-7700 Dealer locator Web site: http://www.optimabus.com/ Dealer locator phone: N/A</p>		
<p>American Heritage Streetcar Applications: Trolley Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison Series Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: 44 gal Estimated driving range: 250 mi GVW: 29,500 lb Seating capacity: 28</p>	<p>Model description: The American Heritage Streetcar from Optima Bus Corporation is a fully enclosed coach that seats up to 28 passengers with two forward-facing wheelchair positions. Warranty information: 1-yr complete coverage. Contact Joseph Gibson, Vice President Sales & Marketing (888-391-1777).</p>
<p>American Heritage Streetcar Applications: Trolley Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 195 Transmission makes/models: Allison Series Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 6,000 scf Estimated driving range: 250 mi GVW: 29,500 lb Seating capacity: 28</p>	<p>Model description: The American Heritage Streetcar from Optima Bus Corporation is fully enclosed coach that seats up to 28 passengers with two forward facing wheelchair positions. Warranty information: 1-yr complete coverage. Contact Joseph Gibson, Vice President Sales & Marketing (888-391-1777).</p>
<p>Orion Bus Industries Web site: http://www.orionbus.com/ Phone: 905-403-1111 Dealer locator Web site: http://www.orionbus.com/orion/0,,0-11-9894-1-10756-1-0-0-0-0-94-9894-0-0-0-0-0-0,00.html Dealer locator phone: N/A</p>		
<p>Orion VII CNG Low-Floor Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 280, Detroit Diesel Series 50G Transmission makes/models: Allison, ZF, Voith Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 21,000 scf Estimated driving range: 350 mi GVW: 42,000 lb Seating capacity: 44</p>	<p>Model description: The Orion VII CNG is a heavy-duty, low-floor transit bus. Designed for years of reliable service, it is manufactured by North America's most experienced CNG transit bus builder. Warranty information: N/A</p>

<p>Orion V CNG High-floor Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport C Gas Plus—CG 280, Detroit Diesel Series 50G Transmission makes/models: ZF, Allison, Voith Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 21,000 scf Estimated driving range: 350 mi GVW: 40,500 lb Seating capacity: 47</p>	<p>Model description: The Orion V CNG transit bus is a highly reliable, heavy-duty vehicle designed for years of service. Orion is the most experienced CNG bus manufacturer in North America. Warranty information: N/A</p>
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<p>Peterbilt Motors Co. Web site: http://www.peterbilt.com/</p>	<p>Phone: 925-556-7469 Dealer locator Web site: http://www.peterbilt.com/ Dealer locator phone: N/A</p>
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<p>320 Applications: Truck Fuel type: LNG Engine makes/models: Clean Air Power/Caterpillar Dual-Fuel C10; Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 Transmission makes/models: Allison/Eaton-Fuller Transmission type: Either</p>	<p>Emission certifications: CARB Low NO_x (2.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 119 gal Estimated driving range: 300 mi GVW: 66,000 lb Seating capacity: 3</p>	<p>Model description: Low cab forward, LH steer or RH steer. Custom wheelbase and frame configuration. Warranty information: See www.peterbilt.com.</p>
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<p>320 Applications: Truck Fuel type: CNG Engine makes/models: Clean Air Power/Caterpillar Dual-Fuel C10; Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 Transmission makes/models: Allison/Eaton-Fuller Transmission type: Either</p>	<p>Emission certifications: CARB Low NO_x (2.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 16,362 scf Estimated driving range: 300 mi GVW: 66,000 lb Seating capacity: 3</p>	<p>Model description: Low cab forward, LH steer or RH steer. Custom wheelbase and frame configuration. Warranty information: See www.peterbilt.com.</p>
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<p>Supreme/Specialty Vehicles Web site: http://www.specialtyvehicles.com/</p>	<p>Phone: 800-784-8726 Dealer locator Web site: http://www.specialtyvehicles.com/ Dealer locator phone: 800-784-8726</p>
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<p>TR 35 RE Applications: Trolley Fuel type: CNG Engine makes/models: Clean Air Power/Caterpillar Dual-Fuel 3126 Transmission makes/models: Allison B300 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (2.5) Fuel capacity: 21,600 scf Estimated driving range: 300 mi GVW: 31,000 lb Seating capacity: 35</p>	<p>Model description: Transit trolley, underfloor tanks, rear engine. Warranty information: 1-yr./50,000-mi.</p>
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<p>Thomas Built Buses Web site: http://www.thomasbus.com/</p>	<p>Phone: 336-889-4871 Dealer locator Web site: http://www.thomasbus.com/locator/ Dealer locator phone: N/A</p>
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<p>Saf-T-Liner Applications: School bus Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 230, Deere 6081H 280 Transmission makes/models: Allison MD3060 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 16,225 scf Estimated driving range: N/A GVW: 36,200 lb Seating capacity: 84</p>	<p>Model description: Equipped with composite CNG tanks. Warranty information: N/A</p>
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<p>TransitLiner Applications: Transit bus Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 230, Deere 6081H 280 Transmission makes/models: Allison MD3060 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: 16,225 scf Estimated driving range: N/A GVW: 36,200 lb Seating capacity: 45</p>	<p>Model description: Equipped with composite CNG tanks. Warranty information: N/A</p>
<p>Trolley Enterprises Web site: http://www.trolleyenterprises.com/ Phone: 800-303-1493 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>Replica Trolley (propane) Applications: Trolley Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison 2400 Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: 33,000 lb Seating capacity: 50</p>	<p>Model description: ADA-approved, Altoona-tested, Freightliner or Spartan chassis; open or enclosed coach. Warranty information: Engine: 5-yr/300,000-mi; Freightliner chassis: 3-yr/100,000-mi; Complete coach: 5-yr/250,000-mi</p>
<p>Replica Trolley (natural gas) Applications: Trolley Fuel type: CNG Engine makes/models: Cummins Westport B Gas Plus—BG 195 Transmission makes/models: Allison 2400 Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty Fuel capacity: N/A Estimated driving range: N/A GVW: 33,000 lb Seating capacity: 50</p>	<p>Model description: ADA-approved, Altoona-tested, Freightliner or Spartan chassis; open or enclosed coach. Warranty information: Engine: 5-yr/300,000-mi; Freightliner chassis: 3-yr/100,000-mi; Complete coach: 5-yr/250,000-mi</p>
<p>TYMCO Web site: http://www.tymco.com/ Phone: 254-799-5546 Dealer locator Web site: N/A Dealer locator phone: 800-258-9626</p>		
<p>Model 600 CNG Applications: Street sweeper Fuel type: CNG Engine makes/models: Baytech 5.7 ULEV, Cummins Westport C Gas Plus—CG 250 Transmission makes/models: Allison MD3060P Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.3), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty Fuel capacity: 7,872 scf Estimated driving range: 100 mi GVW: 32,000 lb Seating capacity: 2</p>	<p>Model description: Freightliner FL70 CNG, dual-steering, TYMCO-designed vertical stack fuel storage. Rear engine is Chevrolet 5.7L KEM CNG. Warranty information: 1 yr/1,000 h</p>
<p>Model 600 LPG Applications: Street sweeper Fuel type: LPG Engine makes/models: Cummins Westport B LPG Plus—BG 195 Transmission makes/models: Allison MD3060P Transmission type: Automatic</p>	<p>Emission certifications: EPA Heavy-Duty Fuel capacity: 48 gal Estimated driving range: 125 mi GVW: 32,000 lb Seating capacity: 2</p>	<p>Model description: Fuel tank has dual liquid port fuel system, which feeds separately to truck and auxiliary engine. Warranty information: 1 yr/1,000 h</p>

<p>Model 210 CNG Applications: Street sweeper Fuel type: CNG Engine makes/models: Baytech 5.7 ULEV Transmission makes/models: Isuzu Transmission type: Automatic</p>	<p>Emission certifications: CARB Low NO_x (1.3), EPA ULEV (Clean Fuel Fleet) Fuel capacity: 7,872 scf Estimated driving range: 100 mi GVW: 12,500 lb Seating capacity: 2</p>	<p>Model description: Cab-over Isuzu, TYMCO-designed vertical stack CNG storage tanks. Warranty information: 1 yr/1,000 h</p>
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Hybrid Electric and Battery Electric Heavy Vehicles

Ebus

Web site: <http://www.ebus.com/>

Phone: 562-904-3474

Dealer locator Web site: N/A

Dealer locator phone: N/A

Battery-Electric Shuttle

Applications: Shuttle bus
Drivetrain type: Pure electric
APU fuel type: N/A
Battery type: Lead acid, nickel cadmium
Battery voltage: N/A
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: N/A
APU peak power: N/A

Emission certification: EPA Heavy-Duty
Regenerative braking: Yes
Type of charger: Conductive
Charge time: 8 h
Discharge rate: N/A
Maximum speed: 40 mph
GVW: 19,500 lb
Seating capacity: 22
Driving range: 90 mi

Available chassis: N/A
Model Description: Open-air, ADA-compliant and Altoona-tested shuttle vehicle.
Warranty information: 1 yr/12,000 mi is standard; option to extend.

Battery-Electric Transit Bus

Applications: Transit bus, shuttle bus
Drivetrain type: Pure electric
APU fuel type: N/A
Battery type: Lead acid, nickel cadmium
Battery voltage: N/A
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: N/A
APU peak power: N/A

Emission certification: EPA Heavy-Duty
Regenerative braking: Yes
Type of charger: Conductive
Charge time: 8 h
Discharge rate: N/A
Maximum speed: 40 mph
GVW: 19,500 lb
Seating capacity: 22
Driving range: 90 mi

Available chassis: N/A
Model Description: Low-floor, 22-ft, Altoona-tested transit bus; ADA-compliant; quiet ride.
Warranty information: 1 yr/12,000 mi is standard; option to extend.

Battery-Electric Trolley

Applications: Trolley
Drivetrain type: Pure electric
APU fuel type: N/A
Battery type: Lead acid, nickel cadmium
Battery voltage: N/A
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: N/A
APU peak power:

Emission certification: EPA Heavy-Duty
Regenerative braking: Yes
Type of charger: Conductive
Charge time: 8 h
Discharge rate: N/A
Maximum speed: 40 mph
GVW: 19,500 lb
Seating capacity: 22
Driving range: 90 mi

Available chassis: N/A
Model Description: Low-floor, Altoona-tested, ADA-compliant trolley; quiet ride.
Warranty information: 1 yr/12,000 mi is standard; option to extend.

Hybrid-Electric Trolley

Applications: Trolley
Drivetrain type: Series (hybrid)
APU fuel type: CNG, LNG, LPG, diesel
Battery type: Lead acid, nickel cadmium
Battery voltage: N/A
Battery capacity: N/A
Battery weight: N/A
Traction motor peak power: N/A
Traction motor continuous power: N/A
APU peak power: N/A

Emission certification: CARB Low NO_x (1.0), EPA Heavy-Duty
Regenerative braking: Yes
Type of charger: Conductive
Charge time: N/A
Discharge rate: N/A
Maximum speed: 40 mph
GVW: 19,500 lb
Seating capacity: 22
Driving range: 250 mi

Available chassis: N/A
Model Description: Driven by Capstone MicroTurbine.
Warranty information: 1 yr/12,000 mi is standard; option to extend.

<p>Hybrid-Electric Transit Bus Applications: Transit bus, shuttle bus Drivetrain type: Series (hybrid) APU fuel type: CNG, LNG, LPG, diesel Battery type: Lead acid, nickel cadmium Battery voltage: N/A Battery capacity: N/A Battery weight: N/A Traction motor peak power: N/A Traction motor continuous power: N/A APU peak power: N/A</p>	<p>Emission certification: CARB Low NO_x (1.0), EPA Heavy-Duty Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: N/A Maximum speed: 40 mph GVW: 19,500 lb Seating capacity: 22 Driving range: 250 mi</p>	<p>Available chassis: N/A Model Description: Low-floor, 22-ft, Altoona-tested bus. ADA-compliant. Driven by Capstone MicroTurbine. Warranty information: 1 yr/12,000 mi is standard; option to extend. Four years on battery.</p>
<p>Electric Vehicles International Web site: http://www.evi-usa.com/ Phone: 765-643-3722 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>Eltram Applications: Tram Drivetrain type: Pure electric APU fuel type: N/A Battery type: Lead acid Battery voltage: 324 V Battery capacity: 68 kWh Battery weight: N/A Traction motor peak power: N/A Traction motor continuous power: N/A APU peak power: N/A</p>	<p>Emission certification: CARB Low NO_x (0) Regenerative braking: Yes Type of charger: N/A Charge time: 6.5 h Discharge rate: N/A Maximum speed: 25 mph GVW: N/A Seating capacity: 16 Driving range: 75 mi</p>	<p>Available chassis: N/A Model Description: Pure electric 19.5-ft tram with optional hybrid-electric range-extension package. Range reaches 125 mi. Also available is 24-passenger trailer. Warranty information: N/A</p>
<p>Elk Applications: Utility vehicle Drivetrain type: Pure electric APU fuel type: N/A Battery type: Lead acid Battery voltage: 120 V Battery capacity: 26 kWh Battery weight: N/A Traction motor peak power: N/A Traction motor continuous power: N/A APU peak power: N/A</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: N/A Charge time: 8 h Discharge rate: N/A Maximum speed: 25 mph GVW: N/A Seating capacity: 2 Driving range: 60 mi</p>	<p>Available chassis: N/A Model Description: Pure electric utility vehicle with hybrid range-extension option. Cargo and utility box trailable. Capacity of 3,000 lb. Warranty information: N/A</p>
<p>Sherpa Applications: Truck Drivetrain type: Pure electric APU fuel type: N/A Battery type: Lead acid Battery voltage: 324 V Battery capacity: 215 amp-h Battery weight: N/A Traction motor peak power: N/A Traction motor continuous power: N/A APU peak power: N/A</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: N/A Charge time: 6 h Discharge rate: N/A Maximum speed: 30 mph GVW: N/A Seating capacity: 3 Driving range: 100 mi</p>	<p>Available chassis: N/A Model Description: Small truck 16 1/4-ft length, can be specified with hybrid-electric range-extension package. 5,000-lb cargo capacity. Warranty information: N/A</p>

<p>EL-25 Applications: Shuttle bus Drivetrain type: Series (hybrid) APU fuel type: Gasoline, LPG Battery type: Lead acid Battery voltage: 324 V Battery capacity: 215 amp-h Battery weight: 5,200 lb Traction motor peak power: 84 kW Traction motor continuous power: 30 kW APU peak power: 10 kW</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Inductive Charge time: 6 h Discharge rate: N/A Maximum speed: 25 mph GVW: 18,700 lb Seating capacity: 25 Driving range: 60 mi</p>	<p>Available chassis: Shuttle bus. Model Description: Low-floor hybrid-electric shuttle bus designed for inner city use, airport parking, college campuses, etc. 27.5-ft length. Warranty information: N/A</p>
<p>ISE Research—ThunderVolt Web site: http://www.isereseach.com/ Phone: 619-287-8785 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>701 AT Applications: Aircraft towing Drivetrain type: Pure electric APU fuel type: N/A Battery type: Nickel sodium chloride Battery voltage: 600 V Battery capacity: 89 amp-h Battery weight: 2,145 lb Traction motor peak power: 300 kW Traction motor continuous power: 170 kW APU peak power: N/A</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: 212 amp Maximum speed: 18 mph GVW: 60,000 lb Seating capacity: N/A Driving range: 20 mi</p>	<p>Available chassis: N/A Model Description: N/A Warranty information: N/A</p>
<p>601/701 All Electric Applications: Truck Drivetrain type: Pure electric APU fuel type: N/A Battery type: Nickel sodium chloride Battery voltage: 600 V Battery capacity: 89 amp-h Battery weight: 2,145 lb Traction motor peak power: 300 kW Traction motor continuous power: 170 kW APU peak power: N/A</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: 212 amp Maximum speed: 70 mph GVW: 40,000 lb Seating capacity: N/A Driving range: 0 mi</p>	<p>Available chassis: Various Model Description: N/A Warranty information: N/A</p>
<p>TB40-HD Applications: Transit bus Drivetrain type: Series (hybrid) APU fuel type: Diesel Battery type: Nickel sodium chloride Battery voltage: 600 V Battery capacity: 17.8 amp-h Battery weight: 429 lb Traction motor peak power: 300 kW Traction motor continuous power: 170 kW APU peak power: 230 hp</p>	<p>Emission certification: EPA Heavy-Duty Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: 170 amp Maximum speed: 70 mph GVW: 40,000 lb Seating capacity: 35 Driving range: 300 mi</p>	<p>Available chassis: New Flyer 40-ft Low Floor. Model Description: N/A Warranty information: N/A</p>

<p>TB30-HG Applications: Transit bus Drivetrain type: Series (hybrid) APU fuel type: Gasoline Battery type: Nickel sodium chloride Battery voltage: 600 V Battery capacity: 17.8 amp-h Battery weight: 429 lb Traction motor peak power: 300 kW Traction motor continuous power: 170 kW APU peak power: 205 hp</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: 170 amp Maximum speed: 70 mph GVW: 35,000 lb Seating capacity: 28 Driving range: 400 mi</p>	<p>Available chassis: Eldorado EasyRider Low Floor. Model Description: N/A Warranty information: N/A</p>
<p>801-H Applications: Yard or urban trailer towing Drivetrain type: Series (hybrid) APU fuel type: CNG, diesel, gasoline, LNG, LPG Battery type: Nickel sodium chloride Battery voltage: 600 V Battery capacity: 17.8 amp-h Battery weight: 429 lb Traction motor peak power: 300 kW Traction motor continuous power: 170 kW APU peak power: N/A</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: 170 amp Maximum speed: N/A GVW: 40,000-80,000 lb Seating capacity: N/A Driving range: N/A</p>	<p>Available chassis: Various Model Description: N/A Warranty information: N/A</p>
<p>TB40-HG Applications: Transit bus Drivetrain type: Series (hybrid) APU fuel type: Gasoline Battery type: Nickel sodium chloride Battery voltage: 600 V Battery capacity: 17.8 amp-h Battery weight: 429 lb Traction motor peak power: 300 kW Traction motor continuous power: 170 kW APU peak power: 305 hp</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: 170 amp Maximum speed: 70 mph GVW: 40,000 lb Seating capacity: 35 Driving range: 300 mi</p>	<p>Available chassis: New Flyer 40-ft Low Floor. Model Description: N/A Warranty information: N/A</p>
<p>New Flyer of America Phone: 204-224-1251 Web site: http://www.newflyer.com/ Dealer locator Web site: http://www.newflyer.com/ Dealer locator phone: N/A</p>		
<p>DE60LF Applications: Transit bus Drivetrain type: Dual-mode (hybrid) APU fuel type: Diesel Battery type: Nickel-metal-hydride Battery voltage: 600 V Battery capacity: 19.5 amp-h Battery weight: 1,100 lb Traction motor peak power: 300 kW Traction motor continuous power: 200 kW APU peak power: 246 hp</p>	<p>Emission certification: EPA Heavy-Duty Regenerative braking: Yes Type of charger: N/A Charge time: 1 h Discharge rate: 300 amp Maximum speed: 65 mph GVW: 66,000 lb Seating capacity: 64 Driving range: 400 mi</p>	<p>Available chassis: Stainless or carbon steel. Model Description: 60-ft articulated, low-floor, heavy-duty transit vehicle, using a diesel engine and parallel electric drive. Warranty information: Standard warranties apply with option for purchasing extended warranty.</p>

<p>DE40LF Applications: Transit bus Drivetrain type: Dual-mode (hybrid) APU fuel type: Diesel Battery type: Nickel-metal-hydride Battery voltage: 600 V Battery capacity: 19.5 amp-h Battery weight: 1,100 lb Traction motor peak power: 260 kW Traction motor continuous power: 200 kW APU peak power: 207 hp</p>	<p>Emission certification: CARB Low NO_x (2.5), EPA Heavy-Duty Regenerative braking: Yes Type of charger: N/A Charge time: 1 h Discharge rate: 300 amp Maximum speed: 65 mph GVW: 40,000 lb Seating capacity: 40 Driving range: 400 mi</p>	<p>Available chassis: Stainless or carbon steel. Model Description: 40-ft, low-floor, heavy-duty transit vehicle. Warranty information: Standard warranties apply with option for purchasing extended warranty.</p>
<p>Orion Bus Industries Web site: http://www.orionbus.com/ Phone: 905-403-1111 Dealer locator Web site: http://www.orionbus.com/orion/0,,0-11-9894-1-10756-1-0-0-0-0-94-9894-0-0-0-0-0-0-0,00.html Dealer locator phone: N/A</p>		
<p>Orion VII Hybrid Low-Floor Applications: Transit bus Drivetrain type: Series (hybrid) APU fuel type: Diesel Battery type: Lead acid Battery voltage: 550 V Battery capacity: N/A Battery weight: N/A Traction motor peak power: N/A Traction motor continuous power: 180 kW APU peak power: N/A</p>	<p>Emission certification: EPA Heavy-Duty Regenerative braking: Yes Type of charger: N/A Charge time: N/A Discharge rate: N/A Maximum speed: 65 mph GVW: 42,000 lb Seating capacity: 44 Driving range: 400 mi</p>	<p>Available chassis: N/A Model Description: Features HybriDrive series propulsion system from BAE Systems. 100% stainless steel chassis. Warranty information: N/A</p>
<p>Solectria Corporation Web site: http://www.solectria.com/ Phone: 781-932-9009 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>Hybrid Citivan Applications: Truck Drivetrain type: Series (hybrid) APU fuel type: Diesel Battery type: Lead acid Battery voltage: 312 V Battery capacity: 15 kWh Battery weight: 1,544 lb Traction motor peak power: 125 kW Traction motor continuous power: 45 kW APU peak power: 17 Kw</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: 4 h Discharge rate: 400 amp Maximum speed: 65 mph GVW: 12,000 lb Seating capacity: 2 Driving range: 20 mi</p>	<p>Available chassis: Workhorse chassis, UCBC body. Model Description: N/A Warranty information: Contact Solectria for warranty information.</p>
<p>Electric Citivan Applications: Truck Drivetrain type: Pure electric APU fuel type: N/A Battery type: Lead acid Battery voltage: 312 V Battery capacity: 30 kWh Battery weight: 3,087 lb Traction motor peak power: 125 kW Traction motor continuous power: 45 kW APU peak power: N/A</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: 8 h Discharge rate: 400 amp Maximum speed: 65 mph GVW: 12,000 lb Seating capacity: 2 Driving range: 40 mi</p>	<p>Available chassis: Workhorse chassis, UCBC body. Model Description: N/A Warranty information: Contact Solectria for warranty information.</p>

<p>Super 7 Applications: Truck Drivetrain type: Series (hybrid) APU fuel type: Diesel Battery type: N/A Battery voltage: N/A Battery capacity: N/A Battery weight: N/A Traction motor peak power: N/A Traction motor continuous power: N/A APU peak power: N/A</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: N/A Charge time: N/A Discharge rate: N/A Maximum speed: 65 mph GVW: 50,000 lb Seating capacity: N/A Driving range: 100 mi</p>	<p>Available chassis: Baseline is Kenworth Class 7 T300. Model Description: Class 7 truck with Eaton 6-speed manual transmission; APU is 8.3-L Cummins ISC diesel; uses combined parallel-series hybrid configuration. Warranty information: Manufacturer has yet to finalize.</p>
<p>TransTeq Web site: http://www.transteq.com/ Phone: 303-382-1041 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>FAST Applications: Shuttle bus Drivetrain type: Series (hybrid) APU fuel type: LPG Battery type: Nickel-metal-hydride Battery voltage: 370 V Battery capacity: 18 amp-h Battery weight: 500 lb Traction motor peak power: 120 kW Traction motor continuous power: N/A APU peak power: 80 kW</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: N/A Charge time: N/A Discharge rate: N/A Maximum speed: 75 mph GVW: 13,500 lb Seating capacity: 15 Driving range: N/A</p>	<p>Available chassis: Ford E-350/E-450 Cutaway chassis. Model Description: Available with zero-emission drive capability, electric heating and air conditioning, and a variety of body configurations, including passenger, delivery, and paratransit. Warranty information: Contact Paul Szilagyi.</p>
<p>Ecomark Applications: Shuttle bus Drivetrain type: Series (hybrid) APU fuel type: CNG Battery type: Lead acid Battery voltage: 336 V Battery capacity: 85 amp-h Battery weight: 2,000 lb Traction motor peak power: 328 kW Traction motor continuous power: N/A APU peak power: 67 kW</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: Conductive Charge time: N/A Discharge rate: N/A Maximum speed: 40 mph GVW: 41,200 lb Seating capacity: 118 Driving range: N/A</p>	<p>Available chassis: 45-ft, stainless steel/fiberglass composite. Model Description: High-capacity “BRT” design with four-passenger entry doors, highly efficient electric drive and superior emissions performance. Stainless steel spaceframe for extended service life. Warranty information: Contact Paul Szilagyi.</p>
<p>Trolley Enterprises Web site: http://www.trolleyenterprises.com/ Phone: 800-303-1493 Dealer locator Web site: N/A Dealer locator phone: N/A</p>		
<p>Replica Trolley (hybrid) Applications: Trolley Drivetrain type: Dual-mode (hybrid) APU fuel type: Diesel Battery type: Lead acid Battery voltage: 336 V Battery capacity: N/A Battery weight: N/A Traction motor peak power: 300 hp Traction motor continuous power: 50 hp APU peak power: 55 hp</p>	<p>Emission certification: N/A Regenerative braking: Yes Type of charger: N/A Charge time: N/A Discharge rate: N/A Maximum speed: N/A GVW: 33,000 lb Seating capacity: 50 Driving range: N/A</p>	<p>Available chassis: Freightliner, Spartan. Model Description: 28-ft, Altoona-tested trolley, open or closed roof. Warranty information: N/A</p>

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. By investing in technology breakthroughs today, our nation can look forward to a more resilient economy and secure future.

Far-reaching technology changes will be essential to America's energy future. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a portfolio of energy technologies that will:

- Conserve energy in the residential, commercial, industrial, government, and transportation sectors
- Increase and diversify energy supply, with a focus on renewable domestic sources
- Upgrade our national energy infrastructure
- Facilitate the emergence of hydrogen technologies as vital new "energy carrier's."

The Opportunities

Biomass Program

Using domestic, plant-derived resources to meet our fuel, power, and chemical needs

Building Technologies Program

Homes, schools, and businesses that use less energy, cost less to operate, and ultimately, generate as much power as they use

Distributed Energy & Electric Reliability Program

A more reliable energy infrastructure and reduced need for new power plants

Federal Energy Management Program

Leading by example, saving energy and taxpayer dollars in federal facilities

FreedomCAR & Vehicle Technologies Program

Less dependence on foreign oil, and eventual transition to an emissions-free, petroleum-free vehicle

Geothermal Technologies Program

Tapping the Earth's energy to meet our heat and power needs

Hydrogen, Fuel Cells & Infrastructure Technologies Program

Paving the way toward a hydrogen economy and net-zero carbon energy future

Industrial Technologies Program

Boosting the productivity and competitiveness of U.S. industry through improvements in energy and environmental performance

Solar Energy Technology Program

Utilizing the sun's natural energy to generate electricity and provide water and space heating

Weatherization & Intergovernmental Program

Accelerating the use of today's best energy-efficient and renewable technologies in homes, communities, and businesses

Wind & Hydropower Technologies Program

Harnessing America's abundant natural resources for clean power generation

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