

BAE Systems
Electrifying Transit



**Electric Transit
Vehicle Showcase**



I want my battery electric bus to perform like my diesel bus

Driveability

Maintenance

Refueling time

Accessories power

Range

Passenger capacity

Electric Bus Models

Manuf	Model	Battery Capacity (kWh)	Effective Range (mi) ¹	Maximum Passenger Capacity ²
PROTERRA	XR	220	77	113
	XR+	330	116	102
	E2	440	155	92
	E2+	550	193	81
	E2 max	660	232	70
BYD	K9	324	114	76
	K9	500	176	61
New Flyer	XE40	150	53	93
	XE40	200	70	83
	XE40	388	136	80
	XE40	466	164	71
Nova	LFSe	150	53	80+



Intended for in-route charging only

New Generation battery- not clear when available

¹ At bus mid-life, with fuel heating

² Based on manufacturer GVWR

MJB & A

Efficiency is a critical performance factor

PRODUCT PLANNING 100 SW 5A
TXZ2015-05-20
MRP2015-05-20

2016 PILOT AWD TRG

EXT: STEEL SAPPHIRE M ENGINE NUMBER: J05Y6-0000101
INT: GRAY

EPA Fuel Economy and Environment Gasoline Vehicle

Fuel Economy
22 MPG
combined city/hwy 19 city 26 highway

You spend \$1,250
in fuel costs over 5 years compared to the average new vehicle.

Annual fuel cost \$2,050

Fuel Economy & Greenhouse Gas Rating mpg per gallon **5** Smog Rating **5**

Actual results will vary for many reasons, including driving conditions, load, use of optional equipment, etc. This estimate was obtained with 20 mpg and needs to be used as a guide only. Fuel economy is based on 14,000 miles per year at 42.0¢ per gallon. MPGs in miles per gallon (city-combined). Vehicle emissions are a significant factor in climate change and smog.

fuelconomy.gov
Calculate personalized estimates for your vehicle.

PARTS CONTENT INFORMATION

FOR VEHICLES IN THIS CATEGORY
U.S. Canadian Parts Content: 75 %

GOVERNMENT 5-STAR SAFETY RATING

Overall Vehicle Score **Not Rated**
(Based on the combined ratings of frontal, side and rollover threat.)

Crash	Driver Passenger	Not Rated
Frontal	Not Rated	Not Rated
Side	Not Rated	Not Rated
Rollover	Not Rated	Not Rated

Star Ratings range from 1 to 5 stars (*****), with 5 being the highest. Source: National Highway Traffic Safety Administration (NHTSA). www.safercar.gov or 1-888-327-4238

STANDARD EQUIPMENT AT NO EXTRA COST

TECHNICAL FEATURES*

- 200hp 3.5-liter I4 VTEC Di engine
- VTEC Dual Injection V6 Engine w/ Earth Dreams Technology & Variable Cylinder Management (VCM)
- 6-Speed Automatic Transmission
- Power Windows
- Side-Step Assist
- 1-7.5" 4M Wheel Drive System
- Intelligent Traction Management
- Hill Start Assist
- Electric Power-Assisted Rack-and-Pinion Steering
- Covers and Front Passenger's Dual-Stage Airbags (SAB)
- Covers and Front Passenger's Side Airbags
- Three Row Side Curtain Airbags
- Vehicle Stability Assist (VSA)
- Anti-Lock Braking System (ABS)
- Electronic Brake Distribution (EBD)
- Brake Assist
- ACR Body Structure
- Tire Pressure Monitoring System (TPMS) with Tire Fill Alert
- LED Daytime Running Lights
- LATCH System for Child Seats

SAFETY FEATURES*

- ACR Body Structure
- Tire Pressure Monitoring System (TPMS) with Tire Fill Alert
- LED Daytime Running Lights
- LATCH System for Child Seats

INTERIOR FEATURES*

- Leather-Trimmed Interior
- Leather-Trimmed Steering Wheel
- AM/FM/CD Premium Audio System with 10 Speakers
- 8-Inch Display Audio with Electrochromic Touchscreen, Honda Satellite-Linked Navigation, Voice Recognition & Multi-View Rear Camera
- Blu-Ray/DVD Rear Entertainment System w/ 7" Display, Wireless Headsets and iPod Interface
- HD Traffic (available in select markets)
- 4.2-Inch Multi-information Display
- XM Satellite Radio

Manufacturer's Suggested Retail Price
\$42,820.00

Full Tank of Fuel **No Charge**

XM Satellite Radio Includes
Free Activation and 3 Months Free Service (incl. A.R. & H.)

Honda Roadside Assistance
24/7/365 Mile Warranty Term. For more information please visit: <http://owners.honda.com/vehicles/roadside-assistance>

DESTINATION AND HANDLING
\$60.00

TOTAL VEHICLE PRICE
(Includes Pre-Delivery Service)
\$43,700.00

License and title fees, state and local taxes and dealer options and accessories are not included in the manufacturer's suggested retail price.

ALTO PRODUCT PLANNING
M.S.: 100 SW 5A
 TORRANCE, CA 90501

PORT OF ENTRY: RICHMOND
DELIVERY POINT: RICHMOND
 SHEET: HOWSPACE
 TRANSMISSION:
 VIN: 5FN9Y8H98GB000946

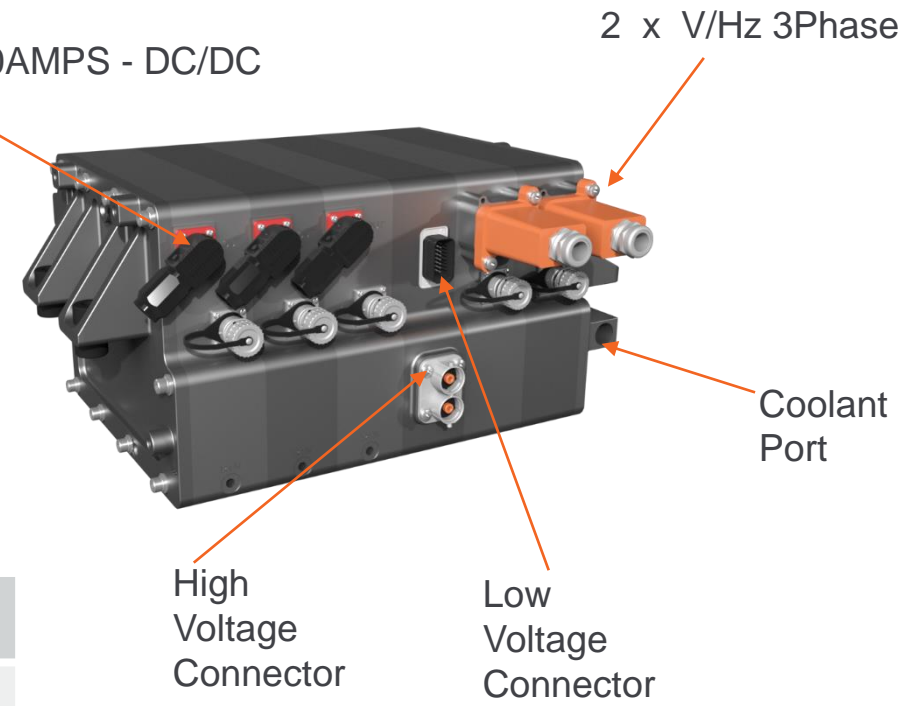
DPG: DLN: 994002
REF. NO.: AEO
 HQ CODE: W8-XDCC
 EMISIGN: 50 STATE
 CONTROL NO: 17090
 DEALER: 994002

5/18/15 22:16:59 VIN: 5FN9Y8H98GB000946 LOCATION: B00 PORTLAND 3.07a 01/01/15

Smaller, less weight, less power consumption



3 x 28V, 200AMPS - DC/DC



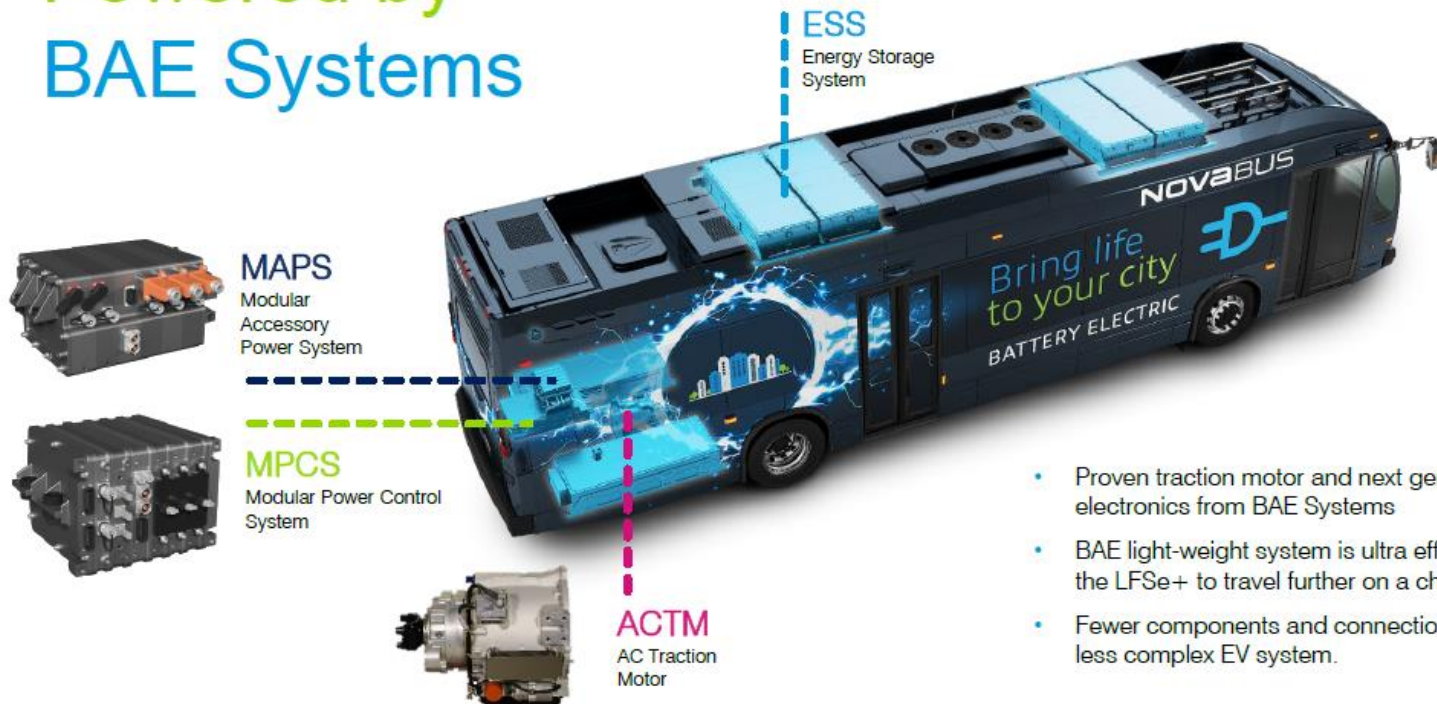
	APS2	MAPS	Δ
Weight	162 lbs	140 lbs	↓14%
Dimensions			
Length	27.01"	15.90"	↓36%
Width	23.32"	23.76"	
Height	9.96"	10.67"	

	APS2	MAPS	Δ
Current	510A	400A	↓22%

Nova Bus' LFSe+ long range battery electric bus



Powered by BAE Systems



- Proven traction motor and next generation power electronics from BAE Systems
- BAE light-weight system is ultra efficient, enabling the LFSe+ to travel further on a charge
- Fewer components and connections makes for a less complex EV system.



Thank You