



Hybrid Power

Medium-Duty Pick-up/City Delivery Applications

EH-8E306A-CD

Roadranger®

More time on the road™

Eaton's Patented Hybrid Electric System Improves Fuel Economy up to 35 Percent While Reducing Emissions and Noise in Pick-up and Delivery Applications

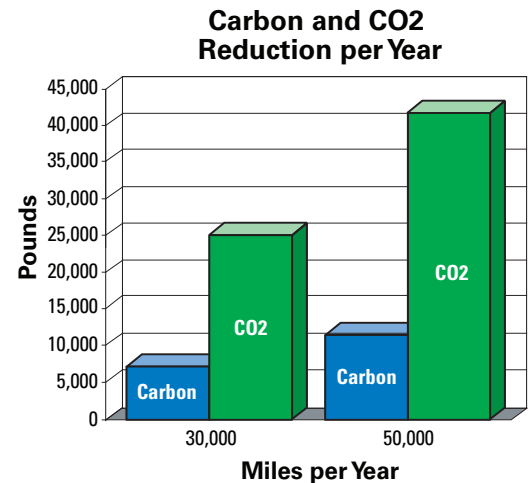
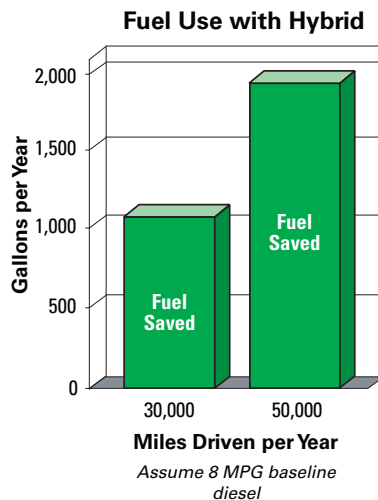
Eaton's hybrid electric system is well suited for applications that require frequent starts and stops such as city delivery and pick-up and delivery. The system provides up to 35 percent improvement in fuel economy and significantly reduces emissions while maintaining performance and functionality.



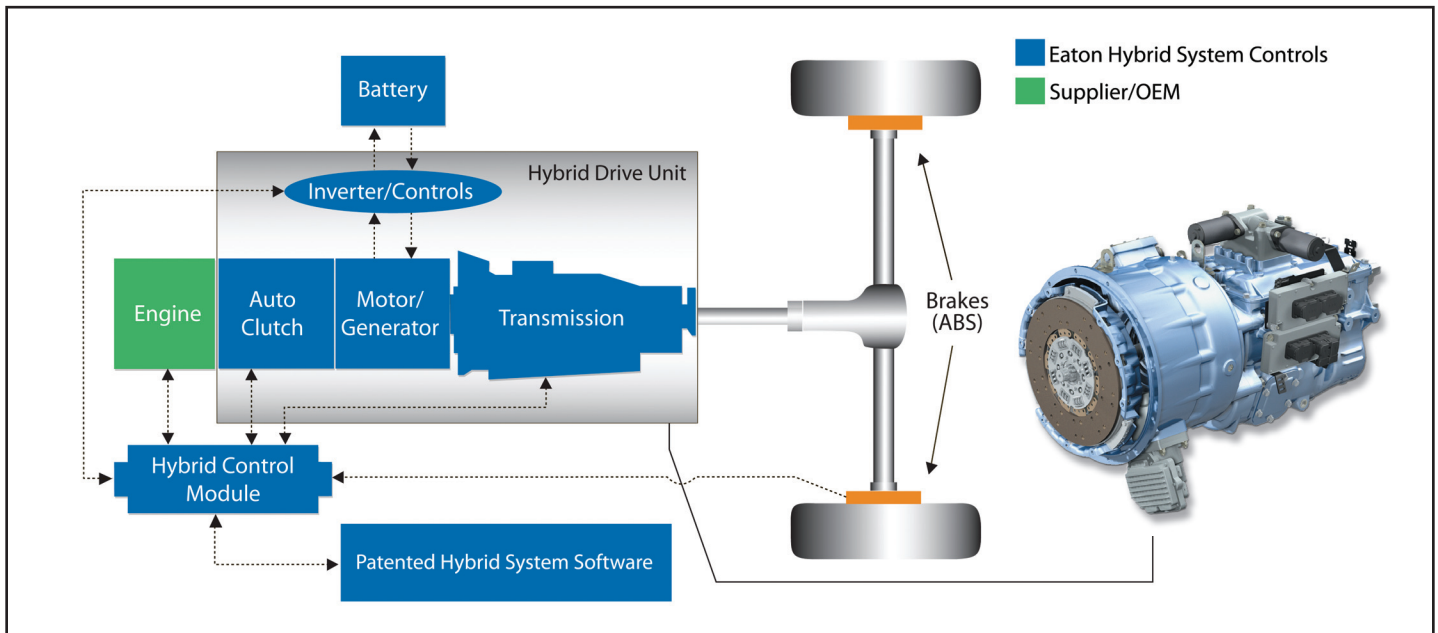
System Benefits*:

- Up to 35 percent improvement in fuel economy using Eaton's patented hybrid solutions.
- Regenerative braking recharges batteries leading to reduced braking and engine wear.
- System provides an electric boost for hills and rapid acceleration when needed.

* Dependent on duty cycle, driver behavior and operating conditions.



Hybrid Power



Eaton's medium-duty hybrid electric system uses a Fuller® automated transmission with a parallel hybrid system. It incorporates an electric motor/generator located between the output of an automated clutch and input of the transmission. Using Eaton's patented hybrid system controls, the system recovers and stores energy normally lost during braking into batteries. When electric torque is blended with engine torque, the stored energy is used to improve fuel economy and vehicle performance for a given speed.

Ratios and Steps:

GEAR	RATIO	% STEP
6th	.78	28
5th	1.00	59
4th	1.59	58
3rd	2.52	64
2nd	4.13	71
1st	7.05	
Reverse	6.75	
Overall	9.04 to 1	

Top View of Shift Console:



R – Reverse
 N – Neutral
 D – Drive – Automatic Gear Selections
 Manual – Manual Gear Selections
 L – Low

Shift console features may vary depending on application

Specifications:

Transmission: Fuller Medium-Duty Automated Manual Transmission

Speeds: 6 forward plus 1 reverse

Capacity: 660 lbs.ft. torque [895-1166 Nm]

Total System Weight: 969 lbs. [439.53 kg] Includes the hybrid drive unit, clutch, batteries, and associated hardware.

Length: 33.4 in. [848.36 mm] from face of the clutch housing to rear of speedo gear. Fit-up compatibility is the responsibility of the vehicle manufacturer. Consult OEM for availability.

Clutch Housing: SAE #2 aluminum

Electric Motor: 44 kW peak, 60 hp/308 lbs.ft. torque [420 Nm]
 26 kW continuous, 35 hp/186 lbs.ft. torque [252 Nm]

Battery System: Nominal 340 VDC / Lithium Ion

PTO Opening: Left or right, 6-bolt PTO. Extended countershaft PTO standard. Subject to application approval.

PTO Drive Gears: Operates off of 5th speed countershaft gear. 48-tooth gear, 7.00 pitch 26° helix angle, 23° pressure angle. 6-bolt and extended countershaft gears turn at .667 of engine speed.

Oil Capacity: Approx. 19.5 pints [9.23 liters]

Gross Vehicle Weight: 33,000 lbs. [14,969 kg] max

For more Eaton Hybrid Drivetrain system information, call 1-800-826-4357, prompt 3.

Roadranger®



For spec'ing or service assistance, call 1-800-826-HELP (4357) or visit our web site at www.roadranger.com. In Mexico, call 001-800-826-4357.

Roadranger: Eaton, Dana and other trusted partners providing the best products and services in the industry, ensuring more time on the road.