



**Fully Integrated
Electric Axles**

Introducing eGen Power[®] from Allison

eGen Power[®] e-Axles are the next evolution in electric commercial vehicles from a leader in propulsion solutions. Designed to fit between the wheels of medium- and heavy-duty trucks and buses, eGen Power is tomorrow's technology in today's changing landscape.

The eGen Power 100S, 100D and 130D are built on Allison's proven expertise in vehicle integration, battery management and vocational expertise. Allison's e-Axles represent one of the most efficient, compact and high-performance combination in its class, all with proven Allison reliability and durability.



Revolutionary Features

Allison eGen Power® optimizes performance while maximizing efficiency with up to two motors and two speeds, one optimized for launch torque and the other for top speed. Our parallel-axis gear scheme orients motors parallel to the axle shaft for maximum efficiency, and 100% regeneration torque capability reduces brake wear and energy cost for operation while extending range and axle life.

Easy to Install – Replacing the vehicle’s traditional powertrain, the eGen Power e-Axle integrates easily with existing truck and bus bodies

Space-Saving Design – This fully integrated e-Axle allows for more space for power sources, including battery or fuel cell system components, giving you more range in any environment

Modular Design – The common central housing is complemented by a modular range of axle legs, allowing OEMs to accommodate different suspension and track width configurations

Integrated Oil Cooler + Oil Pump – Our integrated oil cooler and oil pump are easier and less expensive to install, with reduced risk of leaks—and offer reduced pipe runs and less flex between sprung and unsprung components, giving you simpler packaging, better durability and less maintenance

Multi-Speed Gearbox – Experience equal or better performance with a smaller, lighter, less expensive motor. eGen Power’s gearing provides better gradeability at launch and low speed, in addition to optimized efficiency at higher speed

Optimized Efficiency – Elimination of bevel gearing, minimal gear meshes and forced lubrication enables spec’ing smaller/fewer batteries, or extended range capability with the same battery

Integrated WEG + Oil Cooling – Proprietary oil cooling allows for higher continuous motor operation closer to peak power levels

6th Gen Integrated Controls – Full system integration capability, including Cybersecurity, Functional Safety (FuSA), and Over-the-Air (OTA) programming capability, as well as GPIO packages for vocational solutions



Best-in-Class Efficiency

Highly Efficient Powertrain Design:

- Ground helical gearing allows for quieter operation
- Oil shielding around splash gearing to lessen churning losses
- TES 668® fully synthetic fluid specified for balanced efficiency and gear/bearing life and for commonality of fluid with conventional Allison-equipped trucks and buses

Customized Motor Design for High Efficiency:

- Large torque-speed area operating at 97% efficiency
- More than 65% of torque-speed map operating at 95% efficiency or higher
- 2-speed gearbox expands the number of torque-speed points operating at high efficiency



A World of Support

From our headquarters in Indianapolis, Indiana, USA, to our manufacturing plants in Hungary and India, to more than 1,400 Allison Authorized Distributors and Dealers around the globe, you are never far from the products, training, service and support you demand.



Our Promise

Provide the most reliable and valued propulsion solutions in the world to enable our customers to work more efficiently.

- 100+ years of engineering advanced propulsion solutions
- Trusted by more than 350 OEMs worldwide
- Operated by more than 15,000 fleets globally
- A strong history of innovation with more than 1,100 patents

*One Allison Way
Indianapolis, Indiana USA 46222-3271*

*Information or specifications subject to
change without notice or obligation.*

allisontransmission.com

SA8886EN (2022/09)

© 2022 Allison Transmission Inc.
All Rights Reserved.

