



Fully Integrated Electric Axles



Revolutionary Features

Allison's eGen Power® optimizes performance while maximizing efficiency with up to two motors and two speeds, one optimized for launch torque and the other for high 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 housings, allowing OEMs to accommodate different suspension and track width configurations

Oil Pump – The integrated oil pump is easier and less expensive to install, with reduced risks of leaks – and offers 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 Cooling – Proprietary cooling allows for higher continuous motor operation closer to peak power levels

Next Generation 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

- 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











	eGen Power 85S	eGen Power 100S	eGen Power 130S	eGen Power 100D	eGen Power 130D
Motor	Single	Single	Single	Dual	Dual
GAWR	18,739 lbs (8,500 kg)	23,000 lbs (10,433 kg)	28,660 lbs (13,000 kg)	23,000 lbs (10,433 kg)	28,660 lbs (13,000 kg)
Brakes (optional)	Air disc brakes	Air disc brakes or drum brakes			
Suspensions + Wheel Sizes	17.5" wheel size	22.5" + some 20" wheel sizes		Compatible with most on-highway variations	
Chassis Integration	Designed to fit standard configurations				

Specifications

		eGen Power 85S	eGen Power 100S/130S	eGen Power 100D/130D	
Wheel Torque	Launch	8,850 ft-lb (12,000 N•m)	19,174 ft-lb (26,000 N•m)	34,661 ft-lb (47,000 N•m)	
	Maximum	8,850 ft-lb (12,000 N•m)	19,174 ft-lb (26,000 N•m)	34,661 ft-lb (47,000 N•m)	
Motor Power (@ 650 V)	Continuous	225 kW	225 kW	450 kW	
	Peak	325 kW	325 kW	650 kW	
Voltage Range	Recommended	550-850 V			
	Maximum	550-850 V			

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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

A World of Support

From our headquarters in Indianapolis, Indiana, USA, to our manufacturing plants in Hungary and India, to approximately 1,600 Allison Authorized Distributors and Dealers around the globe, you are never far from the products, training, service and support you demand.



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SA9128EN (2023/11)

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