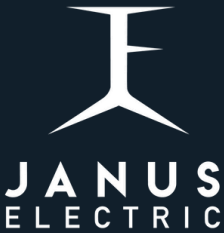




JE-VNL



Driving the Future

Janus Electric is redefining the future of heavy transport with its advanced swappable battery technology. Our exchangeable battery system allows electric trucks to stay on the move without the long delays of traditional charging. In just four minutes, a truck’s battery can be swapped at one of our Janus Electric Charge & Change Stations, ensuring minimal downtime and maximum productivity. These stations can be powered by renewable sources such as solar and wind, enabling fleets to operate with true zero-emission capability.

The benefits go beyond speed and sustainability. Swappable batteries eliminate range anxiety and reduce infrastructure costs. This approach delivers significant operational savings, making the transition to electric transport both practical and profitable.

Supporting this innovation is the **Janus Ecosystem**—a fully integrated platform that gives fleet owners real-time visibility and control. Through advanced data analytics, operators can monitor battery health, track energy usage, and receive predictive maintenance alerts. The system also provides insights into route efficiency and cost savings, helping businesses optimize performance and reduce downtime.

Janus Electric’s technology is the result of collaboration between skilled engineers and experienced transport operators. We offer a smarter, safer, and cleaner alternative for road freight—combining rapid turnaround times, zero-emission operations, and data-driven fleet management. With Janus Electric, you’re not just electrifying trucks—you’re electrifying the entire logistics ecosystem.

Horsepower	540kW/ 720hP
Typical Range	250 mi
Battery Type	JSB-650
Battery Capacity kWh	650 kWh
Battery Usable kWh	560kWh
Truck Recharge Time	4 minute Swappable Battery
Battery Recharge	10% to 95% in 3 hours

- Utilising the JCM-540 e-Powertrain delivers modular flexibility in a compact, lightweight design that boosts efficiency, cuts maintenance and enables seamless fleet electrification.
- Our latest battery technology, developed with Electrovaya, features an exchangeable side battery that increases range, enhances performance, and supports fast charging with long-lasting durability. The JBS-650 sets a new standard for battery electric vehicles.
- Janus Charge and Change Stations keep vehicles on the road by removing range anxiety and easing grid demand. Fast battery swaps and strategic charging drive greater operational efficiency.

Classification

JCM-540 e-Powertrain

JSB-650 - Janus Side Battery

JCCS - Charge Station

Vehicle Platform	Janus Electric VNL	
Class	C18	
Wheel Configuration	6 x 4	
Peak Horsepower	720Hp	540kW
Peak Torque	1,850 lb/ft	2,500N/m
Governed Speed	2,500 RPM	
Continuous Power	500Hp	400kW
System Weight	2,425 lb	
Battery Capacity kWh	650kWh	
Battery Usable kWh	560kWh	
Nominal Voltage (VDC)	647.5	
System Output Voltage	Min - 560 Volts	Max - 717 Volts
Weight	7,165 lb	
Degree of Protection	IP64	
Operating Temperature	-22F to 122F (>113F derating)	-30C to 50C (>45C derating)
Charger Size	Single - 280kW	Double - 420kW
Battery Charge Time	3 Hours	
Battery Capacity	Single - 2 x JSB-650	Double - 4 x JSB-650
Power Feed Required	300 AMP	600 AMP

JCM-540 e-Powertrain: Seamless Fleet Electrification

The JCM-540 e-Powertrain is redefining performance and efficiency for electric heavy transport.

Delivering a peak output of 720 horsepower (540 kW) and an incredible 2,500 N·m of torque, it provides the strength needed for the most demanding freight tasks. With a governed speed of 2,500 RPM and continuous power of 540 horsepower (400 kW), this powertrain ensures smooth, consistent performance on every haul.

What truly sets the JCM-540 e-Powertrain apart is its modular flexibility and compact, lightweight design—just 2,425 lbs. This means easier handling, reduced maintenance, and improved overall efficiency. Its modular architecture enables seamless conversions across all makes and models, giving fleet operators the freedom to electrify without replacing entire vehicles.

Combined with its durability and cutting-edge engineering, the JCM-540 e-Powertrain offers a smarter, cleaner, and more cost-effective solution for the future of road transport.



General Dimension & Weight	Length	18 to 25 ft
	Width	8 to 8.3 ft
	Height	10 to 12 ft tall
	Wheel Base	235"
	Max GVW	Up to 90,000 lb
	Max GCW	215,000 lb
Chassis	Wheel Rim	Front Rims - Steel 22.5" x 8.25" (10 hole) - aluminum optional Rear Rim - Steel 22.5" x 8.25" (10 hole) - aluminum optional
	Tires	11R22.5 Options include 275/80R22.5, 295/75R22.5
	Brakes	Drum brake and regenerative
	E-Stops	E-Stops are located on the interior and exterior of the cab.
Performance	Use Case	Regional Haul, Drayage/Intermodal, Pick-up & Delivery, Last Mile, Food & Beverage, Hub to Hub, Over the Road
	Typical Range	Up to 250 miles This is dependent on topography, driver habits and weather.
Other	Warranty	Extended Option 1 - Included: 3 Years / 250,000 miles Extended Option 2 - \$12,750: 4 Years / 375,000 miles Extended Option 3 - \$18,750: 5 Years / 500,000 miles

JSB-650 - Power that Drives Performance

The Janus Swappable Battery system is setting a new standard for road transport by delivering speed, reliability, and future-proof flexibility.

As battery technology evolves, so does Janus. Our system ensures clients always benefit from the latest advancements without replacing entire vehicles, making upgrades seamless and cost-effective. Supported by the Janus Ecosystem, fleet owners gain real-time insights into battery health, energy usage, and performance, enabling smarter decisions and optimized operations.

Unlike fixed battery systems that can leave trucks idle for hours during charging—or even longer if a fault occurs—Janus offers a rapid solution: a full battery swap in just four minutes at one of our Charge & Change Stations. If a battery ever develops an issue, it can be replaced instantly, getting the asset back on the road without costly downtime. This is something fixed battery systems simply cannot provide.

Janus isn’t just an alternative—it’s the future of freight. Faster turnaround, continuous uptime, and cutting-edge technology make it the most practical and profitable path to electrification.

