



Global Electric Motorcars

A Chrysler Company

Fleet Frequently Asked Questions

www.gemcar.com

“We use our GEM cars for multiple uses, as security vehicles to patrol around the stadium, as light-duty pick-up trucks in the stadium - we haven’t found anything they can’t do for us. These vehicles are very important to us. Without them, we’d be at a standstill moving things around the ballpark. They get quite a workout every day and take it very well.”

- Matt Blush, Director of Ballpark Operations, Washington Nationals Baseball Team

Who is Global Electric Motorcars?

Global Electric Motorcars is a 100% owned subsidiary of Chrysler and is headquartered in Fargo, North Dakota, where it manufactures the full GEM line of vehicles. With over 38,000 GEM cars on the road today, Global Electric Motorcars has become a benchmark in the battery-electric, low-speed vehicle industry.

What is a GEM car?

GEM cars are battery-electric passenger and utility model neighborhood electric vehicles, and the first available for sale from a major automaker. All GEM models are engineered to meet federal safety requirements for street-legal operation as low-speed vehicles (LSVs) and are fully assembled in the United States.

Why should I choose GEM cars for my fleet?

GEM cars are 100% battery-electric, street legal, and are offered in six models and a variety of options. Fleets around the world are discovering that GEM cars are an economical, eco-friendly, versatile and safe alternative to gas-powered vehicles. GEM cars are also fun to drive.

Costing approximately two cents per mile to operate, GEM battery-electric vehicles are affordable and fuel efficient. Because GEM cars are zero-emission vehicles and quiet, they can be driven indoors. GEM cars can improve your fleet efficiency because they can be driven on most streets posted 35mph or less on the facility, or indoors/underground. You can “green” your fleet, save money, and enjoy driving with GEM battery-electric vehicles.

What can GEM cars be used for?

GEM cars are perfect for: patrolling parking lots, hauling equipment, moving people, grounds maintenance, and short trips between buildings. GEM cars are used at airports, national parks, sports stadiums, military installations, on college and corporate campuses, by resorts, medical centers, police departments, and more.





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How can GEM cars save you thousands of dollars by reducing cost of ownership?

GEM cars have about 1/3 the life cycle cost of a combustion engine vehicle. For annual fuel savings, visit the GEM Cost Calculator at www.gemcar.com.

How fast do GEM cars go?

GEM cars are electronically limited to a top speed of 25 mph to meet Federal Low-Speed Vehicle requirements set by the National Highway Traffic Safety Administration (NHTSA).

How far can a GEM car drive on a single charge?

Many things can affect the driving range of a GEM car, including ambient temperature, terrain, payload, driving habits, battery age, and tire pressure. It is hard to say exactly what your range will be, but a typical GEM car used under proper conditions with fully charged batteries, will likely travel between 30 and 40 miles on a charge.

Where can GEM cars be driven – are they legal on the street?

GEM cars can be driven on most public roads posted at 35 mph or less in states that have approved the use of neighborhood electric vehicles, which is nearly all 50 states in the U.S. They are ideal cars for everyday short distance trips around campus, or around the neighborhood.

What powers the GEM car?

Global Electric Motorcars has developed a unique power system that maximizes performance. A 72-volt battery system provides power to a specialized controller that monitors and modulates power delivered to the electric drive motor to maximize range and power. The GEM e2, GEM e4, GEM eS and the GEM eL contain six 12-volt batteries, and the GEM e6 with the "S" Package and the GEM eL XD contain nine 8-volt batteries. Maintenance-free gel batteries are available on all GEM models.

What type of motor do GEM cars have?

The 2009 GEM models feature a heavy-duty DC motor with a continuous 5 horsepower rating and a 12 horsepower peak during acceleration and hill climbing. For increased performance, the GEM e6 and the GEM eL XD come equipped with a 7.0 horsepower motor. A 7.0 horsepower performance package can be added to the GEM e2, GEM e4, GEM eS, or the GEM eL for more demanding applications.





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Is special equipment needed to charge the batteries?

You can plug your GEM car into a 110-volt AC 15-amp outlet. GEM cars are equipped with an on-board charger that is programmed with special algorithms and other programming that helps maintain the batteries and improve longevity.

How long does it take to charge a GEM car?

The GEM e2, GEM e4, GEM e6, GEM eS and the GEM eL take approximately six to eight hours to recharge and the GEM e6 with the “S” Package and the GEM eL XD take approximately eight to ten hours to recharge from a completely discharged state. With an optional fast charge package, GEM cars can be fully charged in less than one hour. The ideal time to charge is at night when the demand for (and often the cost of) electric power is at its lowest. The GEM car can be plugged in virtually anywhere, at any time, to top off the charge or to completely charge the vehicle. (Please refer to the owner’s manual for helpful charging tips.)

What about safety?

All GEM models meet the latest requirements set by the National Highway Traffic Safety Administration (NHTSA) for this class of vehicle. The requirements include automotive safety windshield glass, windshield wipers, headlamps, taillights, turn signals, high mounted stoplights, mirrors, and three-point safety belts. Each GEM model is thoroughly tested at the Automotive Proving Grounds in Arizona for quality and endurance.

How would my GEM cars be serviced?

We recommend that GEM fleet customers have their on-site technicians trained to service GEM cars by coming to the Global Electric Motorcars plant in Fargo, North Dakota. Global Electric Motorcars also has a service network available by phone 7am to 6pm CT Monday through Friday, including customer service and technical support; some areas have Mobile Tech Service. For information on service in your area, contact your local GEM dealer, or visit our web site at www.gemcar.com.

How many people can a GEM car accommodate?

GEM cars are available in two-passenger, four-passenger, and six-passenger models. In addition, Global Electric Motorcars’ utility models each seat two-passengers.

Where can I see and purchase a GEM car for my fleet?

Passenger and utility models are available at over 150 authorized GEM dealerships across the United States and internationally. To find a dealership in your area, you can visit the Locate a Dealer section of our web site at www.gemcar.com.





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What is the payload capacity of a GEM car?

GEM cars have payload capacities ranging from 680 to 1,450 pounds which makes them capable of carrying large or heavy items.

How much does a GEM car weigh?

Depending on the model, the gross vehicle weight is between 1,850 to 3,000 pounds, in compliance with FMVSS 500 requiring low-speed vehicles to be 3,000 pounds or less (visit www.gemcar.com for details).

What types of options are available?

Customizing a GEM car is easy with an array of options that include three types of doors (or no doors), custom wheels, different types of carriers including a lockable TrunkBack™, or many other options (www.gemcar.com or www.nevservice.biz for details). Available colors include red, yellow, green, white, blue, silver and black.

What type of warranty is available for a GEM car?

GEM cars come standard with a GEM Care one-year limited warranty. Optional GEM Care extended service programs for 12- or 24-months may also be available through authorized GEM dealerships across the country.

Are incentives available for the purchase of a GEM car for my fleet?

Depending on your area, incentives from federal, state or municipal governmental agencies may be available.

How much does it cost to charge a GEM car?

It depends on the cost of electricity in your area. To fully charge a GEM car from a completely discharged state, it takes approximately 5 kWh of power. Multiply that by the local cost per kWh and you will have the cost for charging your GEM car.

Will I damage the batteries if I plug the GEM car in when it may only need a partial charge?

You can give your batteries an 'opportunity charge' at anytime. Whether you are plugging it in for 30 minutes over your lunch break or letting it charge for hours, there is no problem with topping your batteries off. Always try to keep the batteries charged. The onboard charger in GEM cars automatically shuts down when the batteries are fully charged, so there's no risk of "overcharging."





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What type of braking system do the GEM cars have?

GEM cars have front-wheel disc and rear-wheel hydraulic brake systems that ensure the ability to stop safely. Regenerative braking improves the vehicle's efficiency and driving range by capturing energy that would otherwise be wasted in braking and sending it back into the batteries.

How do GEM NEVs help meet your EPCRA requirements?

Although GEM cars do not directly qualify for EPCRA credits, they help meet your EPCRA requirements through the process of reducing your fleet size. They may also qualify as "equipment" as well as "vehicles."

How do GEM cars qualify for a petroleum reduction waiver under EPCRA?

To find out how GEM cars qualify for a petroleum reduction waiver, please visit the Department of Energy web site. For more information:

<http://www.eere.energy.gov/cleancities/vbg/fleets/compliance.html>

<http://www.eere.energy.gov/vehiclesandfuels/epact/state/>

<http://www.eere.energy.gov/cleancities/informationcenter.html>

