



GEM[®] MY16 Product Introduction

Polaris GEM is a line of 100% electrical vehicles – most of which are Low Speed Vehicles (LSV). LSV is a classification that allows the vehicles to be street legal in most states on public roads posted 35 MPH or less. GEM cars have a top speed of 25 MPH (as regulated by Federal Motor Vehicle Safety Standard No. 500) and are used for many purposes, including transportation, load hauling, and light utility for both personal and commercial environments.

GEM cars thrive wherever low cost, emission free, quiet transportation is required. GEM cars cost approx. \$.03 per mile to operate, have approximately 1/2 the cost of ownership compared to a gasoline powered automobile, are eco-friendly (do not emit pollution), and are significantly quieter than gasoline powered vehicles. Gem vehicles require minimum maintenance as well. One versatility benefit of electric vehicles is their ability to be used both indoors and in tunnel systems by being emission-free and quiet.

Every GEM is engineered to meet the demands of a versatile customer base as well as deliver a premium quality and reliable product. GEM's portfolio consists of three people movers (e2, e4, and e6) and three utility models (eM1400, eM1400 LSV, and eL XD). Each of the models is customizable to meet end-users needs. Each transportation model can be customized to include a small bed with side options making it ideal for running errands, moving clients, commuting to work or just exploring the neighborhood. Each of the utility vehicles seats two people and comes equipped with a flatbed that is customizable to add various sides or boxes. Typical usage includes hauling equipment to job sites, hauling/storing tools on site, and groundskeeping.

GEM Product Line

People Movers – GEM e2, e4, and e6

GEM's electric line of people movers offer a premium ride for everyone, with great ergonomics (easy to get in and out), comfort while driving or riding, and performance to match your needs. GEM e4's and e6's are great for moving people around campuses or site tours and e2's are excellent for running errands and commuting between buildings on campuses.

Utility Haulers – GEM eM1400, eM1400 LSV, and eL XD

GEM's line of utility haulers are built to work – with payloads up to 1500 lbs. Whether using the vehicle on road or over terrain, GEM's have been designed to meet your needs. GEM offers a full range of bed configurations and accessories allowing each customer to build the vehicle to their exact specifications.

Features

Powertrain

GEM cars are powered by a 48V AC system – delivering proven efficiency, power, reliability, and longevity. The 48V AC system combined with CAN bus communication and the Battery Management Controller (BMC) provides state of the art efficiency – optimizing battery capabilities while driving and charging.



GEM[®] MY16 Product Introduction

Motor

All GEM vehicles are powered with 48v AC motors. The e2 and e4 standard motor provides 5 kW (6.7 hp) continuous power, and have an option for a 6.5 kW (8.7 hp) continuous motor. The e6 and eL XD models standard models use the 6.5 kW continuous motor. The eM1400 and eM1400 LSV have a 5.2 kW (7.0 hp) motor with 14.9 kW (20 hp) at peak. The brushless AC motors were chosen to optimize the power needed for each vehicle with the efficiency required by the end-user.

Transmission

The e2, e4, e6, and eL XD models are all front wheel drive with single speed gear reducer and integral differential. The eM1400 and eM1400 LSV are rear wheel drive.

Motor Controller

All GEM vehicles use a custom solid state controller that includes under voltage detection, over voltage detection, motor thermal protection, speed regulation, and regenerative braking – again optimizing the efficiency of the vehicle.

Battery Management Controller (BMC)

GEM e2, e4, e6, and eL XD use a BMC to more efficiently control charging and discharging of the battery. This controller monitors battery State of Charge (SoC) and State of Health (SoH) throughout the life of the battery – giving fault codes if anything abnormal is detected. By keeping better account of the energy stored in the battery, it provides more confidence in the overall range of the vehicle.

Charger

Every GEM is equipped with an on-board charger designed to plug into a 110 VAC 15-AMP dedicated outlet. Each GEM also includes a U.S. charge cord with built in GFCI protection. GEM e2, e4, e6, and eL XD's can also be configured to include a fast charger (either 3kW or 6kW) that uses the J1772 connection.

The charger on the GEM e2, e4, e6, and eL XD is a smart on-board charger that is programmed to perform a four-stage charging technique to optimize the performance of each battery-type it is paired with.

Stage 1 is the bulk charger where up to 80% of the battery energy capacity is replaced by the charger and is indicated by the instrument pod.

Stage 2 is the absorption charge state (from 80% to approximately 98%)

Stage 3 is the float charge state – bringing the batteries to their full and final capacity. This state will protect the battery from overcharging and will maintain the batteries at 100% readiness during vehicle inactivity.

Stage 4 is only used if required and entails battery equalization.

The same charger is used when paired with Li-Ion batteries, however the staged approach is not used as it is not needed with the different battery technology.



GEM[®] MY16 Product Introduction

Chassis

GEM cars are designed to fulfill many transportation tasks. The modular design allows GEM to build each vehicle to meet the customer's specifications and still meet quick delivery times.

Frame

GEM e2, e4, e6, and eL XD are built on welded aluminum space-frame chassis' with a modular front end design that carries the powertrain. Each frame has been designed and tested to meet the expected tough duty life of the vehicle.

GEM eM1400 and eM1400 LSV are built using a tubular steel frame that is e-coat dipped and powder coat finished to protect from corrosion.

Brakes

GEM e2, e4, e6, and eL XD are all built with front wheel disc brakes and rear wheel hydraulic drum brakes.

GEM eM1400 and eM1400 LSV come equipped with 4 wheel hydraulic disc brakes.

Each GEM vehicle also comes equipped with a hand actuated parking brake and regenerative braking capabilities.

Suspension

GEM e2, e4, e6, and eL XD are provided with Macpherson Strut independent front suspension (5.6" of travel) and independent trailing arm with coil over shock rear suspension (5.9" of travel).

GEM eM1400 and eM1400 LSV use a Macpherson Strut front suspension (5" of travel) and Dual A-arm rear independent suspension (6" of travel).

Tires/Wheels

GEM e2, e4, e6, and eL XD comes standard with 155/80 R13 Steel Radial tires on steel wheel, but can be up-fitted with 165/70 R14 Steel Radial tires mounted on machined aluminum wheels.

GEM eM1400 is equipped with 23x8.5-12 tires and eM1400 LSV is equipped with 175/70 R14 tires, both mounted on steel wheels.

Steering

GEM e2, e4, e6, eL XD, eM1400 and eM1400 LSV are all equipped with automotive style rack-and-pinion steering. The e2, e4, e6, and eL XD can each be upgraded to include tilt and/or Electronic Power Steering (EPS) as well.

Bumpers

GEM e2, e4, e6, and eL XD come standard w/out bumpers. All can be upgraded to include either a Chrome or Rugged front bumper. The e2, e4, and e6 can each be upgraded to either a Rugged w/ 1" receiver or Chrome rear bumper. The eL XD can be upgraded to include a Rugged w/ 2" receiver.

GEM eM1400 and eM1400 LSV both are equipped with a rugged front bumper standard.



GEM[®] MY16 Product Introduction

Body

Body

GEM e2, e4, e6, and eL XD use a multi-layer composite, high impact and UV resistant, thermo-formed, high gloss ABS. Each vehicle is available in four colors – White, Metallic Red, Metallic Blue, and Metallic Black. Note: black is suggested if custom wraps are planned for the vehicle.

GEM eL XD uses diamond plate aluminum in the construction of the rear bed panels.

GEM eM1400 and eM1400 LSV both come in white, molded in color, thermo-formed TPO

Windshield

GEM e2, e4, e6, eLXD and eM1400 LSV all come with automotive safety glass windshield and windshield wiper. e2, e4, e6, and eL XD also include options for in-windshield defroster and windshield washer.

GEM eM1400 does not come with windshield standard

Lighting

GEM e2, e4, e6, and eL XD come standard with halogen hi/lo beam headlamps and LED front and rear self-cancelling turn signals, hazard lights, center high mount rear brake light, taillights, license plate, and dome lights. There is also an LED hi/lo beam headlamp with running lights available from the factory.

GEM eM1400 LSV standard offering includes quartz-halogen, hi/lo beam headlamps, front and rear turn signals, hazard lights, center high mount rear brake and taillights.

GEM eM1400 comes equipped with quartz-halogen headlamps and LED taillights.

Seats

GEM e2, e4, e6, and eL XD all come standard with sliding, charcoal bucket seats (back row is not adjustable) – option: two-tone gray.

GEM eM1400 and eM1400 LSV each seats two occupants in bench-style seating. All seats use molded foam cushions and are covered with marine grade, UV stable vinyl.

Restraints

All GEM LSV's (e2, e4, e6, eL XD, and eM1400 LSV) come standard with automotive three-point safety harness for each seating position. e2, e4, e6, and eL XD include frame mounted grab handles for all passenger (non-driver) seats.

GEM eM1400 does not come with occupant restraints standard

Flooring

All GEM vehicles utilize a slip resistant, UV resistant, textured engineered product for the floor. For added convenience and styling e2, e4, e6, and eL XD offer rubber and carpet floor mats designed specifically for each model.

Mirrors

GEM e2, e4, e6, and eL XD are built with interior day/night rearview mirrors and two exterior sideview mirrors. Note: mirrors mounting is adjustable to accommodate for ordered options and owner preference.

GEM eM1400 LSV is provided with an interior day/night rearview mirror and a driver side sideview mirror.

GEM eM1400 does not have a standard mirror.



GEM[®] MY16 Product Introduction

Carriers

GEM vehicles are configurable to meet many different applications. e2, e4, and e6 can each be configured with a small flat cargo bed (S-bed) and stake sides or solid sides can be added to the S-bed. Each vehicle can also be configured with a trunkback to allow lockable, enclosed storage. eL XD has many configurable options as well including bed options of flatbed, recessed bed, covered recessed bed, tinged tailgate, fixed tailgate, and ramped tailgate. eL XD can be built with different combinations of carriers to match how the vehicle will be used, including ladder rack, enclosed cargo box (L-Box), stake sides, solid sides, front tool chest and side tool chests.

Controls/Gauges

GEM e2, e4, e6, and eL XD come standard with a center mount analog gauge with digital readout. The gauge cluster includes speedometer (MPH or KPH), odometer, tripmeter, hour meter, gear indicator, battery gauge, and hi-temp indicator.

GEM eM1400 gauges includes F-N-R indicator, park brake and motor or controller malfunction, digital charge indicator, and digital cumulative hour meter.

GEM eM1400 LSV gauge includes F-N-R indicator, park brake and motor or controller malfunction, digital charge indicator, speedometer and digital cumulative hour meter.

Performance

Speed

GEM e2, e4, e6, eL XD, and eM1400 LSV are all regulated to a maximum speed of 25 mph. If a GEM car is not reaching maximum speed, check the vehicles percentage of charge, brakes for dragging and tire pressure.

GEM eM1400 is not an LSV and has a top speed of 19 mph.

All GEM vehicles limit speed in reverse for added comfort and safety. Each car is also equipped with a reverse warning device that sounds when the vehicle is in reverse and the key is in the on position.

Range

GEM e2, e4, e6 and eL XD are able to be shipped from the factory with many different battery configurations. It is recommended to discuss with the end-user how the vehicle will be used to determine the correct battery package for their use. The battery packages include flooded batteries (with or without single point watering system), maintenance free batteries (with different energy levels) and Li-Ion batteries.

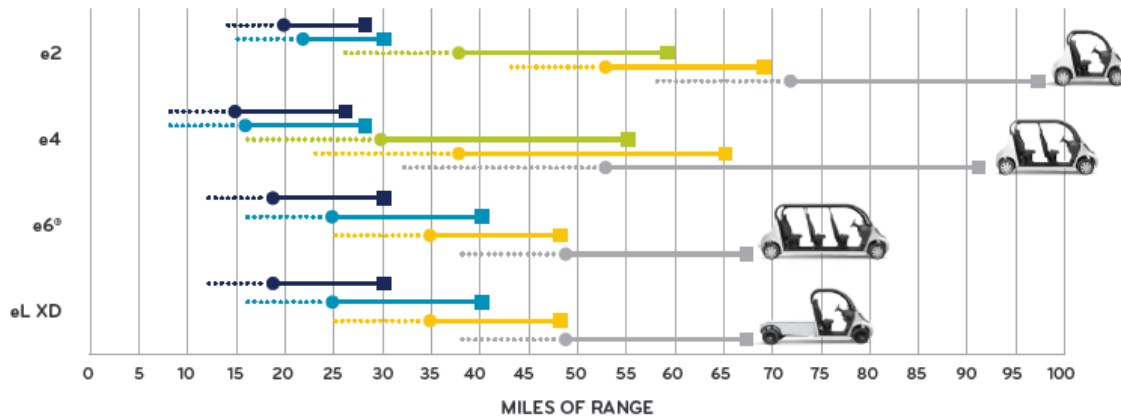
GEM eM1400 and eM1400 LSV come standard with flooded batteries with single point fill and can be upgraded to maintenance free batteries.



GEM[®] MY16 Product Introduction

GEM Smart Power Range Options

FLOODED ELECTROLYTE	STANDARD MAINTENANCE FREE	DISTANCE MAINTENANCE FREE	LITHIUM-ION 8.9 KWH	LITHIUM-ION 12.4 KWH
Value battery requires regular maintenance	Leak-free, spill-proof design never needs refilling	For increased distance, especially in hilly terrain	Lightweight and hard-working for maximum range and 2-3X more battery life	Maximum range for shuttle and other high-demand applications



● Range on all Polaris[®] electric vehicles will vary depending on temperature, grade, payload and driving style. Average range value includes testing at 25 mph with 332 lbs of cargo and a stop/start every 1,000 ft on a flat grade.
 ■ NEV values attained via testing in accordance with NEV America requirements with continuous use on a horizontal grade.

Basic Vehicle Operation

1. Disconnect the charging cord from the vehicle prior to operating (the control system will not let you drive the vehicle while charging)
2. Turn key clockwise to the on position
3. Fully release parking brake
4. Select driving mode (Forward, Neutral, Reverse)
5. Press accelerator pedal

Charging

GEM cars have a battery control and recharge system especially designed for electric vehicle usage. The charging system is designed to maximize the battery pack life while recharging in the shortest amount of time. The base charger is set-up to recharge using 110v, 15 Amp service.

The state of charge indicator shows how much capacity is available in the battery pack. There is a percent readout and a ten bar indicator light.

The batteries used in GEM vehicles will perform best when kept fully charged. The batteries can be charged at any time (Opportunity Charge), therefore, whenever possible, recharge the batteries – regardless of state of charge indicated.

1. Battery receptacle is located under the center front facia brow (on the driver side panel of eM1400 and eM1400 LSV). The standard charger accepts a 3-wire grounded extension cord (one included with every vehicle). The extension cord should not exceed the following: 14-gauge wire 50 foot cord or 16-gauge wire 25 foot cord. Note if a fast charger is installed on the vehicle, a J1772 plug will be needed to interact with the vehicle.
2. Insert the proper cord into the battery charger receptacle



GEM[®] MY16 Product Introduction

3. Insert the provided cord into a 110v, 15Amp dedicated outlet. It is recommended to use a Ground Fault Interrupt Protected Circuit (GFCI). To ensure proper charging, no other cars appliances, etc. should be using the same circuit.
4. Depending on starting state of charge, type of charger installed, and type of batteries installed in the vehicle, a full recharge may take eight to ten hours.

Maintenance

Refer to your owner's manual for specific maintenance to your vehicle, below are typical guidelines.

Battery Tips & Storage Recommendations

1. Battery posts must be clean and tight.
2. If corroded, clean posts with a solution of one tablespoon baking soda and one cup water.
3. When storing or not using the GEM[®] car for an extended period of time (two weeks or longer), it is recommended that you first check the water level of your batteries, unless equipped with maintenance-free batteries, and leave the vehicle plugged into the outlet. The battery charger will initiate a charge cycle every seven days for flooded electrolyte batteries or 14 days for maintenance-free batteries.
4. If the batteries appear to be frozen, do not charge them.
5. Due to the different operating characteristics of the two types of batteries, automotive-type starting batteries should never be substituted in place of a deep cycle marine battery.

Flooded Batteries

1. The water level in these batteries needs to be maintained at no higher than the bottom neck opening (1/2 inch above the plates) and should be checked at least monthly.
2. If the water level is below the plates, add just enough distilled water to cover the plates, then charge and re-check the water levels.
3. If the water level is below the neck opening but above the top of the plates, first charge the vehicle, then re-check the levels and add distilled water to just below the neck opening. Overfilling can cause the batteries to boil and spill acid.
4. Check all battery connections monthly to ensure that they are tight and free of corrosion. If corrosion starts to appear, wash the tops and terminals of batteries with a solution of one tablespoon baking soda and one cup water. Let terminals dry and then spray them with anti-corrosion spray.

Maintenance-free Batteries

There is little maintenance needed for the maintenance-free batteries — only to keep the batteries charged and the terminals clean and tight. It is recommended that you check the battery terminals at



GEM[®] MY16 Product Introduction

least once a month for corrosion. While checking the terminals, make sure that there is a tight connection between the battery cable and the battery terminal. If corrosion starts to appear, wash the tops and the terminals of batteries with a solution of baking soda and water using the 1 tablespoon/cup ratio. Let terminals dry and then spray them with anti-corrosion spray. If you regularly maintain the batteries, the GEM[®] car will run more efficiently. Maintenance-free batteries have an advantage over flooded water-based batteries by reducing needed maintenance and adding to the life span of the vehicle.

Tire Inflation

Maintaining proper tire inflation pressure is essential to safe operation of your vehicle. Improperly inflated tires can also contribute to poor battery range and vehicle handling. Tire inflation pressures should be checked monthly. Refer to the Vehicle Identification Number (VIN) label inside the vehicle for recommended tire pressure.

Monthly Vehicle Maintenance Tasks

1. Check all flooded batteries for proper water level. (Not necessary if vehicle is equipped with maintenance-free batteries.)
2. Check battery terminals for tight connections.
3. Check tires for correct air pressure and wear.
4. Check for proper operation of parking brake.
5. Check brake fluid reservoir for proper brake fluid level.
6. Check brake lines for leaks.
7. Check seat belts for proper operation.
8. Check headlights, horn, turn signals, windshield wiper and brake lights for proper operation.



GEM[®] MY16 Product Introduction

Actual mass (EU only) ^C : GEM LSV/Quadricycle									
Model Name:		e2 - LSV		e4 - LSV		e6 - LSV		eLXD - LSV	
Model Number:		L16G2AGALA		L16G4AGALA		L16G6AGALA		L16G2DGALA	
MASSES		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
GVWR (maximum laden mass) ^A :		2000 lbs	907 kg	2500 lbs	1134 kg	3000 lbs	1361 kg	3000 lbs	1361 kg
Front GAWR:		1280 lbs	581 kg	1600 lbs	726 kg	1920 lbs	871 kg	1920 lbs	871 kg
Rear GAWR:		1280 lbs	581 kg	1600 lbs	726 kg	1920 lbs	871 kg	1920 lbs	871 kg
MRO (Mass in running order) ^B :		N.A.		N.A.		N.A.		N.A.	
MRO + propulsion batteries (Dry Weight in NA):		1200 lbs	544 kg	1350 lbs	612 kg	1696 lbs	769 kg	1585 lbs	719 kg
Actual mass (EU only) ^C :		N.A.		N.A.		N.A.		N.A.	
Rated Cargo Load (NA only) ^D :		500 lbs	227 kg	550 lbs	249 kg	404 lbs	183 kg	1115 lbs	506 kg
Pay-mass (EU only) ^E :		N.A.		N.A.		N.A.		N.A.	
Curb Weight (LSVs include >33% acc)		1515 lbs	687 kg	1400 lbs	635 kg	1700 lbs	771 kg	1725 lbs	782 kg
DIMENSIONS/CAPACITIES		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Overall Length ^F :		103.0 in	2616 mm	135.0 in	3429 mm	167.0 in	4242 mm	145.5 in	3696 mm
Overall Width:		55.5 in	1410 mm	55.5 in	1410 mm	55.5 in	1410 mm	55.5 in	1410 mm
Overall Height ^F :		73.1 in	1857 mm	73.1 in	1857 mm	73.1 in	1857 mm	73.1 in	1857 mm
Cab Volume:		70 ft ³		124 ft ³		177 ft ³		70 ft ³	
Ground Clearance ^H :		8 in		8 in		8 in		8 in	
Leg Room:		43.1 in	1095 mm	43.1 in	1095 mm	43.1 in	1095 mm	43.1 in	1095 mm
Wheelbase ^G :		69.0 in	1753 mm	101.0 in	2565 mm	133.5 in	3391 mm	114.0 in	2896 mm
Outside Turning Radius:		150.0 in	3810 mm	207.0 in	5258 mm	264.0 in	6706 mm	233.0 in	5918 mm
Bed Box Dimensions (L x W x H):		N.A.		N.A.		N.A.		70 x 52 . x 29.5 in	
Truck Bed Height from Ground:		N.A.		N.A.		N.A.		16.5 in	
Payload Capacity ^I :		800 lbs	363 kg	1150 lbs	522 kg	1304 lbs	591 kg	1415 lbs	642 kg
Fuel Capacity:		N.A.		N.A.		N.A.		N.A.	
Rear Rack Box Capacity:		33 lbs	15 kg	33 lbs	15 kg	33 lbs	15 kg	1100 lbs	499 kg
Hitch Towing Rating:		N.A.		N.A.		N.A.		N.A.	
Hitch Type:		Accessory		Accessory		Accessory		Accessory	
ELECTRIC POWERTRAIN (BASE CONFIG)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Motor Manufacturer:		Letrika		Letrika		Letrika		Letrika	
Motor Type:		AC Induction		AC Induction		AC Induction		AC Induction	
Max Continuous Rated Power:		6.7 HP	5 kW	6.7 HP	5 kW	8.7 HP	6.5 kW	8.7 HP	6.5 kW
Max Peak Power:		17.8 HP	13.3 kW	17.8 HP	13.3 kW	24.8 HP	18.5 kW	24.8 HP	18.5 kW
ELECTRIC POWERTRAIN (OPTION)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Motor Manufacturer:		Letrika		Letrika		N.A.		N.A.	
Motor Type:		AC Induction		AC Induction		N.A.		N.A.	
Max Continuous Rated Power:		8.7 HP	6.5 kW	8.7 HP	6.5 kW	N.A.		N.A.	
Max Peak Power:		24.8 HP	18.5 kW	24.8 HP	18.5 kW	N.A.		N.A.	
TRACTION BATTERIES (BASE CONFIG)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Type of Batteries:		12V Flooded		12V Flooded		6V Flooded		6V Flooded	
Number of Batteries:		4		4		8		8	
Mass / Battery:		86 lbs	39 kg	86 lbs	39 kg	65 lbs	30 kg	65 lbs	30 kg
Total Mass of Batteries:		344 lbs	156 kg	344 lbs	156 kg	520 lbs	236 kg	520 lbs	236 kg
Rated Capacity:		4.3kWh @ 75 Amp discharge @ 26C		4.3kWh @ 75 Amp discharge @ 26C		7.9Wh @ 75 Amp discharge @ 26C		7.9kWh @ 75 Amp discharge @ 26C	
TRACTION BATTERIES (OPTION)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Type of Batteries:		12V Sealed		12V Sealed		6V Sealed		6V Sealed	
Number of Batteries:		4		4		8		8	
Mass / Battery:		85 lbs	39 kg	85 lbs	39 kg	65 lbs	30 kg	65 lbs	30 kg
Total Mass of Batteries:		340 lbs	154 kg	340 lbs	154 kg	520 lbs	236 kg	520 lbs	236 kg
Rated Capacity:		4.3kWh @ 75 Amp discharge @ 26C		4.3kWh @ 75 Amp discharge @ 26C		6.8Wh @ 75 Amp discharge @ 26C		6.8Wh @ 75 Amp discharge @ 26C	
TRACTION BATTERIES (OPTION)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Type of Batteries:		6V Sealed		6V Sealed		LHON		LHON	
Number of Batteries:		8		8		1		1	
Mass / Battery:		65 lbs	30 kg	65 lbs	30 kg	157 lbs	71 kg	157 lbs	71 kg
Total Mass of Batteries:		520 lbs	236 kg	520 lbs	236 kg	157 lbs	71 kg	157 lbs	71 kg
Rated Capacity:		7.9Wh @ 75 Amp discharge @ 26C		7.9Wh @ 75 Amp discharge @ 26C		8.9Wh @ 75 Amp discharge @ 26C		8.9Wh @ 75 Amp discharge @ 26C	
TRACTION BATTERIES (OPTION)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Type of Batteries:		LHON		LHON		LHON		LHON	
Number of Batteries:		1		1		2		2	
Mass / Battery:		157 lbs	71 kg	157 lbs	71 kg	220 lbs	100 kg	220 lbs	100 kg
Total Mass of Batteries:		157 lbs	71 kg	157 lbs	71 kg	220 lbs	100 kg	220 lbs	100 kg
Rated Capacity:		8.9Wh @ 75 Amp discharge @ 26C		8.9Wh @ 75 Amp discharge @ 26C		12.4Wh @ 75 Amp discharge @ 26C		12.4Wh @ 75 Amp discharge @ 26C	
TRACTION BATTERIES (OPTION)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Type of Batteries:		LHON		LHON		N.A.		N.A.	
Number of Batteries:		2		2		N.A.		N.A.	
Mass / Battery:		220 lbs	100 kg	220 lbs	100 kg	N.A.		N.A.	
Total Mass of Batteries:		220 lbs	100 kg	220 lbs	100 kg	N.A.		N.A.	
Rated Capacity:		12.4Wh @ 75 Amp discharge @ 26C		12.4Wh @ 75 Amp discharge @ 26C		N.A.		N.A.	
TRANSMISSION		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Gear Ratio:		17.05 : 1.0		17.05 : 1.0		17.05 : 1.0		17.05 : 1.0	
WHEELS AND TIRES (BASE)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Tire Type:		Steel Radial Tubeless		Steel Radial Tubeless		Steel Radial Tubeless		Steel Radial Tubeless	
Tire Size:		155/80 R13		155/80 R13		155/80 R13		155/80 R13	
Rim:		13 x 4.5 in		13 x 4.5 in		13 x 4.5 in		13 x 4.5 in	
Recommended Pressure:		35 psi		35 psi		35 psi		35 psi	
Wheels:		Stamped Steel		Stamped Steel		Stamped Steel		Stamped Steel	
Tire Rating (Turf or street rated):		Street		Street		Street		Street	
Bolt Pattern:		4 x 4.53 in		4 x 115 mm		4 x 4.53 in		4 x 115 mm	
WHEELS AND TIRES (OPTIONS)		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Tire Type:		Steel Belted Radial		Steel Belted Radial		Steel Belted Radial		Steel Belted Radial	
Tire Size:		165/70 R14		165/70 R14		165/70 R14		165/70 R14	
Rim:		14x4.5 in		14x4.5 in		14x4.5 in		14x4.5 in	
Recommended Pressure:		35 psi		35 psi		35 psi		35 psi	
Wheels:		Machined Aluminum		Machined Aluminum		Machined Aluminum		Machined Aluminum	
Tire Rating (Turf or street rated):		Street		Street		Street		Street	
Bolt Pattern:		4 x 4.53 in		4 x 115 mm		4 x 4.53 in		4 x 115 mm	
BRAKES		Eng	Metric	Eng	Metric	Eng	Metric	Eng	Metric
Front Make:		Kailing		Kailing		Kailing		Kailing	
Front Type:		Disk		Disk		Disk		Disk	
Rear Make:		Wanxiang		Wanxiang		Wanxiang		Wanxiang	
Rear Type:		Hydraulic Drum		Hydraulic Drum		Hydraulic Drum		Hydraulic Drum	
Front/Rear Brakes:		4-Wheel automotive style hydraulic brakes with front wheel disc brakes and rear drum brakes		4-Wheel automotive style hydraulic brakes with front wheel disc brakes and rear drum brakes		4-Wheel automotive style hydraulic brakes with front wheel disc brakes and rear drum brakes		4-Wheel automotive style hydraulic brakes with front wheel disc brakes and rear drum brakes	