



Tel: (631)-651-5655  
Email: [MG@AmVetWorks.com](mailto:MG@AmVetWorks.com)



7MLS1



# Goes Farther, Gets There Faster Carries a Bigger Payload



Runs all day  
without  
recharging  
> 100 mi. Range



Travels from  
site to site at  
speeds  
exceeding  
50 mph



Up to  
1,100 lbs  
payload  
capacity



Real time  
vehicle management  
and remote  
diagnostics



Light weight, agile  
and maneuverable  
in dense urban  
environments



1 or 2 Passenger  
seating with  
multiple driving  
position options

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# FireFly® ESV – The Amazing Power of 3



## BASIC SPECIFICATIONS

- **Chassis:** 3-wheeled, body-on-frame design
- **Speed:** 50+ MPH
- **Range:** 100+ miles per charge
- **Load Capacity:** 1,100 lbs.
- **Power:** 100% Pure Electric™
- **Motor:** 47 kW (63 HP) AC induction
- **Battery Pack:** 23.6kW lithium iron phosphate
- **Transmission:** Computer-controlled Integrated Drive System™ (ESC), optimizes vehicle performance for range & stability control
- **Suspension:** Proprietary DuraSteer™, with load distribution and anti-dive control
- **Charging Time:** Full charge in 6 hours (L2)

## STANDARD FEATURES

- **Integrated steel passenger safety cell**
  - Low maintenance ABS body panels
- **Ergonomic low step-in height doors**
  - With smooth LinearGlyde™ mechanism
  - High-visibility, impact resistant windows
- **Multiple seating/driver configurations**
- **evTSCconnect**
  - Real-time vehicle communications
  - Remote diagnostics, monitoring & control
  - Vehicle and Fleet management system
- **Dual Mode Display**
  - Displays estimated miles remaining & vehicle diagnostic information
- **Electronic Parking brake**
  - With “auto-park” and hill assist

## Proudly Made In the USA

Industry leading 36 Month, 24,000 Mile Warranty Used Traction Batteries are Re-purposed for Grid Storage

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# Endlessly Configurable

## Purpose built for Essential Services and Urban e-Mobility

- Parking Management & Enforcement
- Refuse & Sanitation
- EMS & First Response
- Airports & Seaports
- Security & Perimeter Patrol
- Parks & Sidewalk Maintenance
- Roadside Assistance
- Property & Building Management
- Last-Mile Urban Parcel Delivery
- Hot & Cold Food Delivery
- University & Municipal Campus
- Utility Meter Reading



SECURITY PATROL



AIRPORTS AND SEAPORTS



PARKS & SIDEWALK MAINTENANCE



EMS AND FIRST RESPONSE



URBAN LAST MILE DELIVERY



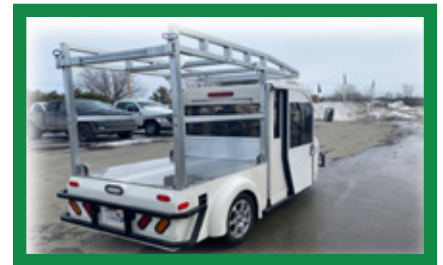
REFUSE AND SANITATION



PARKING ENFORCEMENT



UNIVERSITIES & CORP. CAMPUSES



PROPERTY MAINTENANCE

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## Strategic Partnerships

evTS has cultivated partnerships with multiple industry leaders



## FireFly's Advantages

### Vehicle Performance

- Battery range
- Point-to-point speeds
- Payload capacity, size & weight
- Urban agility & maneuverability - tight 122" turning radius

### Made for Urban e-Mobility and Environmental Equity

- Seamlessly transitions from on road travel to use on sidewalks and park paths
- Small Footprint - takes up less room in congested neighborhoods, narrow streets and those with bike lanes
- 100% Pure Electric, produces no CO2, use has a positive impact on polluted urban air quality

### Vehicle Management System

- Real-time performance monitoring & Remote diagnostics improves uptime & serviceability

### Safe Lithium Iron Phosphate Battery Technology

- Among the safest EV battery chemistries, Non-combustible cell design
- All used evTS Traction Battery cells are recovered and repurposed for a 2nd life use in energy storage

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## Built Like a Truck

### Rugged Construction, Heavy Duty Suspension and Accessible Drive Train



**Robust body-on-frame design** with commercial grade 7" steel "C-channel" frame, heavy-duty leaf springs & outside frame mounted coil-over shocks



**Maintenance friendly access** under-bed drivetrain with best in class 47 kW (63 HP) AC induction motor & electronic parking brake



**Proprietary DuraSteer™ Front-end** with massive wishbone design and near vertical steering angle, hugs the road with load distributing, anti-dive control & coil-over shocks

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# Vocation Specific Modular Beds

## Mobility That Works™



FireFly delivers as a dependable partner for on-demand hot & cold food deliveries



The FireFly has accessory beds for many specialized use cases, like an electric dump



The FireFly is a minimal impact workhorse that is agile and maneuverable



FireFly is a versatile purpose-built vehicle with a vocation specific modular design



FireFly is the ideal solution for urban on-demand, stop-and-go deliveries



The electric FireFly ESV is an ideal first response solution for special events and stadiums – indoors or out

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## Operating and Maintenance Costs

### Firefly Electricity Usage

Number of Days Firefly Used	250
Daily Miles Driven	32.0
Daily KWH Used	6.96
	(assuming 4.6 mi/kWh efficiency)
<b>Total kWh Used/Year</b>	<b>1739.13</b>

### Environmental Impact

Gallons of Gasoline Saved	800
	(assuming 10 mpg for gasoline vehicle)
Firefly GGE	51.6 (Gasoline Gallon Equivalent)
Firefly Equivalent MPGe	155.0
<b>Tons of CO2 Saved/Year</b>	<b>7.11</b>

### Operating & Cost Savings

Cost of Electricity Used	\$276.52	(assuming \$ 0.1590 /kWh)	\$ 0.03 /mi
Firefly Maint. Cost	\$143.70	(assuming \$ 0.02 /mi, based on)	\$ 8000 mi/yr
Cost of Gasoline Saved	\$2,776.00	(assuming \$ 3.47 /Gal)	
Gas Vehicle Maint. Costs Saved	\$3,999.75	(assuming \$ 0.50 /mi, based on)	\$ 8000 mi/yr
<b>Total Yearly Cost Savings</b>	<b>\$6,355.53</b>		

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# FireFly Vehicle Highlights



## FireFly ESV

- 100% Pure Electric™
- Ergonomic Urban e-Mobility
- Application Specific
- Body-on-Frame Design
- DuraSteer™ Front Suspension
- Load Leveling Coil-Over Shocks
- Safe and Stable
- Agile & Maneuverable
- Tight Turning Radius
- Highway Speeds
- All Day Range
- Low annual O&M cost
- Real-Time Vehicle Management
- All Used Batteries Repurposed

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# Questions?



Address: 14 Mariners Lane Northport, NY 11768

Email: [SS@AMVetworks.com](mailto:SS@AMVetworks.com)

Tel: (631)651-5655

Tel: (631)697-0691



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# TECHNICAL APPENDIX

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## 7MLS1



# Vehicle Specifications

<b>MOTOR</b>		
63 HP (47kW) AC Induction	<b>STD</b>	
<b>BATTERY PACK</b>		
102 V (nominal) 20.5kWh Lithium Iron Phosphate	<b>STD</b>	
<b>SPEED &amp; RANGE</b>		
Electronically Governed, capable of speeds exceeding 50 MPH	<b>STD</b>	
100+ Miles per charge (under normal operation)	<b>STD</b>	
<b>TRANSMISSION</b>		
Computer Controlled Integrated Drive System™ (IDS)	<b>STD</b>	
<b>ELECTRICAL SYSTEM</b>		
SAE J1772 3kW (Level 2) charger	<b>STD</b>	
> Less than 6hr charge time under normal use		
Halogen headlights & LED stop, tail and turn lamps	<b>STD</b>	
"Auto -Park" Parking Brake feature	<b>STD</b>	
Automatic Hill Assist feature- minimizes rollback on steep grades	<b>STD</b>	
Electronic Controlled Drive/Variable -rate electronic drive system optimizes speed and range	<b>STD</b>	
Electronic Stability Control System (ESC) with 3-axis accelerometer and Integrated vehicle ride sensors	<b>STD</b>	
> Automatically adjusts speed & ride for maximum stability		
<b>CLIMATE CONTROL</b>		
Heating-Electronic, 3 KW heater/defroster	<b>STD</b>	
2.3KW diesel/biodiesel supplemental heater	<b>OPT</b>	
4000 BTU air conditioning system	<b>OPT</b>	
		<b>SUSPENSION &amp; STEERING</b>
		DuraSteer™ front suspension <b>STD</b>
		> Proprietary load distributing front end with anti-dive control and coil-over shocks
		> Outside frame mounted heavy-duty rear leaf springs with coil over shocks
		<b>BRAKING</b>
		Tuned dual-circuit master cylinder and disk brakes <b>STD</b>
		Electric Parking Brake (EPB) <b>STD</b>
		<b>BODY/FRAME/COLORS</b>
		Heavy Duty, body-on -frame design <b>STD</b>
		Welded tubular steel frame with integrated safety cell <b>STD</b>
		Textured white ABS outer skin (color molded in) w/UV protection <b>STD</b>
		<b>SEATS</b>
		Single Passenger Bucket seating <b>STD</b>
		Tandem seating available-left or right-hand drive <b>OPT</b>
		Seat heaters <b>OPT</b>
		<b>DOORS</b>
		LinearGlyde™ door system maintains narrow vehicle profile <b>STD</b>
		> Self-cleaning large diameter cushioned rollers
		> Powder coated steel tubes and four-point, load-balanced, crosslinked mechanical design for maximum stability
		Extra-wide 28 in (71 cm) door openings <b>STD</b>
		Low-sill height, horizontal sliding polycarbonate windows <b>STD</b>

## TIRES

175/65-14 all-season radials	<b>STD</b>
*Snow and ice rated where appropriate	<b>STD</b>

## WEIGHT CAPACITY

GVWR-3500 pounds  
 Rated Capacity-1100 pounds (incl. driver)

## EXTERIOR DIMENSIONS

Overall cab height	69 in	(175 cm)
Overall length	152 in	(386 cm)
Overall width	54 in	(137 cm)
Ground clearance	6 in	(15 cm)
Outside turning radius	22 in	(310 cm)
Wheelbase	96 in	(244 cm)
Track	44 in	(112 cm)
Deluxe Cargo Bed	44 x 51 x 12 in	(112 x 130 x 30 cm)

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## Features and Technology

Integrated passenger safety cell	<b>STD</b>
Textured ABS, UV-protected body panels	<b>STD</b>
Extra-low step-in height of less than 10 in (25 cm)	<b>STD</b>
> Maximizes operator comfort and minimizes fatigue	
Tubular steel front and rear bumpers	<b>STD</b>
High-visibility, tinted, haze/scratch/impact-resistant polycarbonate windows	<b>STD</b>
Dual outside and inside mirrors	<b>STD</b>
3-Speed intermittent windshield wiper system with washer	<b>STD</b>
Tilt-column steering wheel with center horn button	<b>STD</b>
3-Point seat belt system	<b>STD</b>
Full-width shade band on windshield	<b>STD</b>
Dome light and backlit controls for nighttime use	<b>STD</b>
Easily removable and replaceable heavy-duty floor mat	<b>STD</b>
Recessed dashboard with integrated cupholders, radio openings, and pockets	<b>STD</b>
Pre-wired and integrated speaker mounts for optional AM/FM/MP3 player	<b>STD</b>
12V DC accessory port for phone, GPS, or other user accessories	<b>STD</b>
Up to four additional 12V DC accessory ports	<b>STD</b>
Wiring packages and factory installation of equipment such as ALPR, Light Bars, Warning Lights, etc.	<b>STD</b>
Integrated rails in bed floor to secure cargo and mount for optional accessories	<b>STD</b>
Deluxe bed with tri-fold, locking, and stowable bed cover	<b>OPT</b>
<b>Dual Mode Dash Display</b>	<b>STD</b>
> Gauge pod display of operational information and on-board parameters, etc.	
> Provides estimated miles remaining, battery charge level, odometer, etc.	
<b>evTSCONNECT Vehicle Management System</b>	
> Connected real-time vehicle monitoring to track day-to-day operations of the vehicle	<b>STD</b>
> (eDAS) Digital Acquisition System™, performance data logging, remote data access, diagnostics, and alerts	<b>STD</b>
<b>Optional Fleet Management System</b>	<b>OPT</b>
<b>Optional Wi-Fi and 360-degree camera system</b>	<b>OPT</b>

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# O & M Cost Calculator Details

## Excel Spreadsheet embedded

### Firefly Cost Savings Estimator

Enter customer-specific information in gray cells

#### Firefly Usage

Number of Days Firefly Used	250
Daily Miles Driven	32.0
Daily KWH Used	6.96 (assuming 4.6 mi/KWH efficiency)
<b>Total KWH Used/Year</b>	<b>1739.13</b>

#### Environmental Impact

Gallons of Gasoline Saved	800 (assuming 10 mpg for gasoline vehicle)
Firefly GGE (Gasoline Gallon Equivalent)	51.6 (per 33.7 KWH/gallon of gasoline, <a href="http://www.afdc.energy.gov/fuels/fuel_comparison_chart.pdf">http://www.afdc.energy.gov/fuels/fuel_comparison_chart.pdf</a> )
Firefly Equivalent MPGe	155.0 (per 33.7 KWH/gallon of gasoline, <a href="http://www.afdc.energy.gov/fuels/fuel_comparison_chart.pdf">http://www.afdc.energy.gov/fuels/fuel_comparison_chart.pdf</a> )
<b>Tons of CO<sub>2</sub> Saved/Year</b>	<b>7.11</b> (per EPA formula at <a href="http://www.epa.gov/cleanenergy/energy-resources/calculator.html">http://www.epa.gov/cleanenergy/energy-resources/calculator.html</a> )

#### Operating & Cost Savings

Cost of Electricity Used	\$276.52 (assuming \$ 0.1590 /KWH)	\$ 0.03 /mi	Avg. Regional cost of electricity (Commercial Rate) from <a href="https://www.eia.gov/electricity/monthly/update/">https://www.eia.gov/electricity/monthly/update/</a>
Firefly Maint. Cost	\$143.70 (assuming \$ 0.02 /mi, based on 8,000 mi/yr)	\$ 539.00 0.2666	Based on actual experience per 30K mi (.2666 utilization factor)
Cost of Gasoline Saved	\$2,776.00 (assuming \$ 3.47 /Gal)		Based on AAA regional published Regular grade gas prices 12/15/21 - ( <a href="https://gasprices.aaa.com/">https://gasprices.aaa.com/</a> )
Gas Vehicle Maint. Costs Saved	\$3,999.75 (assuming \$ 0.50 /mi, based on 8,000 mi/yr and \$ 7,500.00 0.5333 /yr per actual costs per 15K mi. as provided by small city parking mgmt. fleet)		
<b>Total Yearly Cost Savings</b>	<b>\$6,355.53</b>		

**\$ 340.40** FireFly Yearly Operating Cost    **\$6,355.53** Operating Cost Savings/Year    **7.11** Tons of CO<sub>2</sub> Saved/Year

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**FIREFLY<sup>ESV</sup>**  
 ESSENTIAL SERVICES VEHICLE



Tel: (631)-651-5655  
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