

MODEL: LSV 800 - Exceed
TYPE: ELECTRIC LOW SPEED TRUCK
MODEL YEAR: 2012

Part No.: 624932



PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Programmable AC Drive System: Factory programmable to application

- Solid State variable frequency AC speed controller
- Drive-by-wire electronic throttle control
- Dash mounted direction selector switch (Forward-Neutral-Reverse)
- Descent speed control and automatic hill hold
- Full-time regenerative braking
- 235 Amp AC Controller
- Full torque, reduced speed reverse
- Sealed Hall effect throttle sensor
- Full diagnostic capability (Hand held diagnostic unit)
- Dash mounted High/Low speed selector switch

Motor: 48 Volt AC induction motor, solid copper windings. 4.4 hp (3.3 kW) Continuous, 15 hp (11.2 kW) peak. AC system reads motor speed for accurate speed control in all conditions. Regenerative braking for maximum economy

Battery Charger: On-board 48 VDC PowerWise™ High Frequency, 120/230 VAC 50/60 Hz with 30 amp DC-DC Converter. (U.L. & C.S.A. Certified)

Electrical System: 48 Volt DC, four, 12 volt deep cycle storage batteries (60 minute minimum, 150 amp-hour @ 20 hr. discharge rate)

Drive Train: Direct motor shaft connected to transaxle pinion shaft

Transaxle: Differential with reverse helical gears

Brakes: 4-wheel hydraulic disc brakes and Induction motor. Electro-magnetic parking brake is applied automatically

Towing: Rear hitch receiver integrated into bed support frame

Cargo Bed: Roto-molded cross-linked polyethylene. Tilts for access to powertrain. Removable hinged multi-position tailgate requires no latch mechanism

Exceed Unit: Briggs & Stratton 12S Single Cylinder Engine (205cc); Fuel Tank Capacity: 2.0 gal; 400W Inverter

PRODUCT OVERVIEW

Dimensions

Overall Length	108.9 in	277 cm
Overall Width	48.5 in	123 cm
Overall Height	71.2 in	181 cm
Overall Height (with Strobe)	75.2 in	191 cm
Wheel Base	65.9 in	167 cm
Front Wheel Track	36.7 in	93 cm
Rear Wheel Track	39.7 in	101 cm
Gnd Clearance @ Differential	4.5 in	11 cm
Cargo Box Width (inside)	44.5 in	113 cm
Cargo Box Length (inside)	30.5 in	77 cm
Cargo Box Depth (inside)	7.5 in	19 cm
Cargo Box Capacity	5.9 cu ft.	0.17 m ³
Cargo Box Material	Roto-molded polyethylene	

Vehicle Power

Power Source	48 Volts DC	
Motor Type	48 Volts AC	
Horsepower (kW)	4.4 hp	3.3 kW
Electrical System	48 Volt	
Batteries (Qty, Type)	Four, 12 Volt Deep Cycle	
Key or Pedal Start	Pedal Start	
Speed Controller	235 amp	
Drive Train	Motor Shaft Direct Drive	
Transaxle	Helical Gears	
Direction Selection	Dash mounted Forward-Neutral-Reverse	
Speed Selection	Dash mounted High-Low switch	
Rear Axle Ratio	14.76:1 (F)	

Battery Charger	Onboard 48 VDC PowerWise™	
DC-DC Converter	30 amp - Integrated into On-board Charger	

Performance

Seating Capacity & Style	2 Persons/Bucket Seats	
Dry Weight	958 lb	435 kg
Curb Weight	1286 lb	583 kg
Bed Load Capacity	300 lb	136 kg
Vehicle load capacity	685 lb	311 kg
Towing Capacity	1200 lb max (See Page 2 for Gradeability)	
Gross Axle Weight Rating - F	575 lb	261 kg
Gross Axle Weight Rating - R	2000 lb	907 kg
Outside Clearance Circle	19.7 ft	6.0 m
Speed - Low (Level Ground)	14 mph	22.5 kph
Speed - High (Level Ground)	25 mph	40.2 kph
Speed - Reverse	8 mph	12.9 kph

Steering & Suspension

Steering	Double Ended Rack & Pinion - 3.69 turns to lock
Front Suspension	Independent A-arm with Coil Over Shock
Rear Suspension	Mono-Leaf Springs with Hydraulic Shocks
Service Brake	4-Wheel Hydraulic Disc with Motor Regen
Parking Brake	Spring Applied Electro-magnetic
Front & Rear Tires	DOT Street Legal 205-50-10 Radial

Body & Chassis

Frame	Welded Steel with DuraShield powder coat
Body & Finish	Injection Molded TPO & Automotive Style Paint
Standard Color	Patriot Blue

Some items shown may be optional equipment



CUSHMAN

OPTIONS & FIELD INSTALLED (Installation not included)*

Item	Std	Opt	Fld	Item	Std	Opt	Fld
Wheels & Tires:				On-Board Charger with 30 amp DC-DC Converter	●		
DOT Street Legal 205 -50-10 Radial	●			Run-Tow Switch	●		
Steel Wheels with Painted Platinum Wheel Covers	●			Charger Cord Receptacle with Charge Indicator Light	●		
Diamond Pattern Aluminum Wheels		●		Split bench seat with center console (Front)	●		
Body Colors:				Custom Front Fascia with Integrated Signal Indicators	●		
Patriot Blue	●			Reflex Reflectors on Side & Rear of Vehicle	●		
Safety Yellow		●		Four 12V US12VRX Batteries	●		
OPS Color (Canopy):				Anti-slip Floor Mat	●		
White	●			Horn Switch integrated in Turn Signal Lever	●		
Seat Colors:				Poly Bed with Tilt Capability	●		
Stone Beige	●			Lighted License Plate Holder	●		
Oyster		●		Dash-Mounted Power Switch & Choke Button for Exceed	●		
Standard Features:				Three-Prong Power Outlet (120V,400 watt)	●		
Dash mounted High-Low Speed Selector Switch	●			Fuel Gauge	●		
Dash Mounted 12-V Accessory Outlet	●			Passenger Side Mirror	●		
Dash Mounted Speedometer, Odometer & SOC Gauge	●			Vehicle Options:			
Error Code Display in Speedometer & Odometer Gauge	●			2-Speed Windshield Wiper Kit		●	
3-point Seat Belts - Front & Rear	●			16 ft (5 m) Charger Cord with Integrated GFI		●	
Automatic Parking Brake	●			Driver Side Locking Glove Box		●	
4 Cup Cup Holder	●			Drop in Ashtray		●	
Passenger Side Locking Glove Box	●			Battery Fill System		●	
Individually Keyed	●			Spark Arrestor		●	
Comfort Grip Steering Wheel	●			Hard Cab Kit			●
Turn Signals and Flashers	●			OPS Mounted Amber Strobe Light			●
Headlights	●			Heater/Defroster			●
Brake Lights Including Center High Mount Stop Light	●			Weather Enclosure			●
OPS Mounted Driver Side Mirror	●			Hydrolink Hose Supply and Hand Pump			●
Automotive Safety Glass Windshield (AS1)	●			Engine Oil Change Pump			●
Windshield Mounted Automotive Style Rear View Mirror	●			Tow Hitch			●
OPS (Operator Protective Structure) Rated Canopy	●						
2-in Tow Hitch Receiver	●						

Gradeability

Vehicle Speed**	Drawbar Pull†	Maximum % of Grade/Payload*						
		0%	5%	10%	15%	20%	25%	30%
mph/kmh	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg
2.0/3.2	468/212	1800/816	1800/816	1800/816	1208/548	617/280	247/112	-
6.0/9.7	454/206	1800/816	1800/816	1800/816	1132/513	559/253	-	-
10.0/16.1	353/160	1800/816	1800/816	1240/562	564/256	-	-	-
16.0/25.7	151/68	1800/816	409/185	-	-	-	-	-

Grades designated in this chart indicate "climbing ability" of the vehicle with one operator and no bed load. Other considerations such as braking, road surface, type of load and stability must be made for safe operation. Consult factory for specific requirements.

*Payload - Vehicle payload must not exceed vehicle payload rating. Balance of load must be trailed weight (trailer weight plus load on trailer).

**Vehicle speed at Peak Torque.

†Formula: Weight to be pulled multiplied by .03 equals Drawbar Pull required except where gradeability exceeds max allowable trailer weight.