



CUSHMAN

MODEL: SHUTTLE™ 2
TYPE: ELECTRIC DRIVE CARGO CARRIER
MODEL YEAR: 2012
Part No.: 618848



PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Precision Drive System™ (PDS): Factory programmable to application

- Solid State continuously variable separately excited speed controller
- Dash mounted direction selector switch (Forward-Neutral-Reverse)
- Anti-roll back, walkaway braking and alarm
- Anti-stall motor protection
- Regenerative 'Pedal Down' and/or 'Pedal Up' braking
- Eight, 6 Volt Deep Cycle
- Full torque, reduced speed reverse
- Inductive throttle sensor
- Diagnostic indicator
- Factory selectable performance options

Battery Charger: 48 VDC Lester PowerWise™, 120 VAC, Underwriters Laboratories (U.L.) Listed, (C.S.A. Certified)

Motor: 48 volt DC shunt wound, brazed armature, solid copper windings. Intermittant Horsepower 18.1 hp (13.5 kW) at 1900 rpm (1hour)

Drive Train: Direct motor shaft connected to transaxle pinion shaft

Electrical System: 48 Volt DC, eight, 6 volt deep cycle storage batteries (107 minute, 225 amp-hour @ 20 hr. discharge rate)

Transaxle: Differential with helical gears

Brakes: Dual rear wheel mechanical self-adjusting drum brakes. Automatic single point park brake release with self-compensating system

PRODUCT OVERVIEW

Dimensions

Overall Length	141.0 in (358 cm)
Overall Width	48.5 in (123 cm)
Overall Height (No Canopy)	48.6 in (123 cm) (Top of steering wheel)
Overall Height (With Canopy)	72.0 in (183 cm)
Wheel Base	93.5 in (237 cm)
Front Wheel Track	34.2 in (85 cm)
Rear Wheel Track	38.0 in (97 cm)
Gnd Clearance @ Differential	4.3 in (11 cm)
Cargo Bed Width	44.0 in (112 cm)
Cargo Bed Length	68.5 in (174 cm)

Vehicle Power

Power Source	48 Volts DC
Motor Type	Shunt Wound
Continuous Horsepower (kW)	2.5 hp (1.9 kW)
Intermittent Horsepower (kW)	18.1 hp (13.5 kW) @ 1900 rpm
Electrical System	48 Volt
Batteries (Qty, Type)	Eight, 6 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Battery Charger	48 V Lester PowerWise, 120 VAC, UL/CSA
Speed Controller	400 Amp Precision Drive System (PDS)
Drive Train	Motor Shaft Direct Drive
Transaxle	Differential with helical gears
Gear Selection	Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio	14.7:1

Performance

Seating Capacity	2 Person
Dry Weight	720 lb (325 kg) (Without Batteries)
Curb Weight	1210 lb (550 kg)
Vehicle load capacity	1000 lb (540 kg)
Outside Clearance Circle	25.5 ft (7.8 m)
Intersecting Aisle Clearance	N/A
Ground Speed (Level Ground)	13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Towing Capacity	N/A

Steering & Suspension

Steering	Self-compensating rack and pinion
Front Suspension	Leaf springs with hydraulic shock absorbers
Rear Suspension	Leaf springs with hydraulic shock absorbers
Service Brake	Rear wheel mechanical self-adjusting drum
Parking Brake	Self-compensating, single point engagement
Front Tires	Links 18 x 8.50 - 8 (4 Ply Rated)
Rear Tires	Links 18 x 8.50 - 8 (4 Ply Rated)

Body & Chassis

Frame	Welded steel. DuraShield™ powder coat
Front Body & Finish	Injection molded TPO. Base coat/clear coat
Rear Body & Finish	Steel. Base coat/clear coat
Standard Color	Patriot Blue

Some items shown may be optional equipment



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OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)*

Item	Std	Opt	Fld	Item	Std	Opt	Fld
TIRES & WHEELS:				Miscellaneous:			
Front:				DC/DC Converter		●	
Links18 x 8.50 - 8 (4 Ply Rated)	●			Batteries Trojan T145		●	
USA Trail 18 x 8.50 - 8 (Load Range C)		●		Batteries Trojan T125		●	
Rear:				Batteries Trojan T105	●		
Links18 x 8.50 - 8 (4 Ply Rated)	●			Batteries Trojan T145 w/ Battery Fill System		●	
USA Trail 18 x 8.50 - 8 (Load Range C)		●		Batteries Trojan T125 w/ Battery Fill System		●	
Wheel Covers:				Batteries Trojan T105 w/ Battery Fill System		●	
Spoke, Black & Gold		●		Headlights	●		
Spoke, Black & Silver		●		LED Headlights		●	
Chrome 6 in (15 cm)		●		Horn	●		
Chrome 8 in (15 cm)		●		Hour Meter		●	
COLORS:				Individual Key Switch		●	
Body Color - Patriot Blue	●			State of Charge Meter	●		
Body Color - Hunter Green		●		Turn Signals with 4-Way Flashers		●	
Body Color - Champagne		●		Cargo Bed	●		
Custom Body Color		●		Unique Group Key Switch		●	
Pin Stripes:				Drop Side Rails			●
Pewter		●		VEHICLE CAB:			
Black		●		Defroster			●
Silver		●		Dome Light			●
Seating				Light Kit, Beacon			●
Seat Color - Oyster	●			Mirrors (Cab Required)			●
Seat Color - Tan		●		Strobe Light (Cab Required)			●
Seat Color - Gray		●		Fuse Cab (Cab Required)			●
Custom Seat Color		●		Work Light Kit			●
OTHER PERFORMANCE:				Cab (without doors)			●
Ash Tray		●		White Doors, Set			●
Drop Side Rails (as shown in picture)			●	WEATHER PROTECTION:			
Rear View Mirror (Sun Canopy Required)			●	Sun Canopy (Top) Black			●
Front Disc Brakes		●		Sun Canopy (Top) Beige			●
ELECTRICAL:				Sun Canopy (Top) White			●
Battery Chargers:				Windshield Flat			●
48 VDC Lester PowerWise, 120 VAC, UL & CSA	●			Windshield Fold Down			●
48 VDC Delta-Q, 10 ft (3 m) DC Cord		●		TRANSAXLE:			
48 VDC Delta-Q, 18 ft 5.5 m) DC Cord		●		Limited Slip Differential		●	
Battery Charger Delete		●					