



**CUSHMAN**

**MODEL: CUSHMAN SHUTTLE 2+2**  
**TYPE: ELECTRIC POWERED PERSONNEL CARRIER**  
**MODEL YEAR: 2016**  
**Part No: 641335**



**PRODUCT SPECIFICATION**

**CONFIGURATION HIGHLIGHTS**

- TruCourse Technology:** Programmable to multiple vehicle terrains, with expanded regenerative braking function, and vehicle charger lockout
- Solid State continuously variable separately excited speed controller
  - Dash mounted direction selector switch (Forward-Neutral-Reverse)
  - Anti-roll back, walkaway braking and alarm
  - Programmable regenerative braking, acceleration and speed
  - Six, 8 Volt Deep Cycle Batteries
  - Full torque, reduced speed reverse
  - Inductive throttle sensor
  - Handheld vehicle diagnostics and rounds tracking
- Battery Charger:** 48QE high frequency, fully line compensating. 10ft (3m) DC Cord. Underwriters Lab. (U.L.) Listed, (C.S.A. Certified)
- Input: 120 Volts AC, 50/60Hz, 8 amps
  - Output: 48 Volts DC at 13 amps
- Motor:** 48 Volt DC shunt wound, brazed armature, solid copper windings
- Drive Train:** Direct motor shaft connected to transaxle pinion shaft
- Electrical System:** 48 Volt DC, six, 8 volt deep cycle batteries (117 minute minimum, 170 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
- Capacity:** Seating for 4 persons. Rear Seat converts to Load Deck

**PRODUCT OVERVIEW**

**Dimensions**

Overall Length	108.5 in (276 cm)
Overall Width	48.5 in (123 cm)
Overall Height (No Canopy)	46.5 in (118 cm) (Top of steering wheel)
Overall Height (With Canopy)	77.0 in (196cm) (Top of Sun Canopy)
Wheel Base	65.5 in (166 cm)
Front Wheel Track	38.0 in (97 cm)
Rear Wheel Track	38.5 in (98 cm)
Gnd Clearance @ Differential	4.5 in (11 cm)
Load Deck Width	40.0 in (102 cm)
Load Deck Length	32.0 in (81 cm)

**Performance**

Seating Capacity	4 Person
Dry Weight	658 lb (298kg) (Without Batteries)
Curb Weight	1036 lb (470kg) (with Trojan T-875)
Load Capacity (Load Deck)	250 lb (113 kg)
Load Capacity (Vehicle)	800 lb (363 kg)
Outside Clearance Circle	19 ft (5.8 m)
Intersecting Aisle Clearance	N/A
Speed (Level Ground)	14.0 mph ± .5 mph (22.5 kph ± 0.8 kph)
Towing Capacity	N/A

**Vehicle Power**

Power Source	48 Volts DC
Motor Type	Shunt Wound
Horsepower (kW)	3.0 HP (2.2kW) Continuous
Electrical System	48 Volt
Batteries (Qty, Type)	Six, 8 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Battery Charger	48 VDC QE, 120 VAC, UL/CSA
Speed Controller	250 Amp Solid State Controller
Drive Train	Motor Shaft Direct Drive
Transaxle	Differential with helical gears
Gear Selection	Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio	12.44:1

**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	18 x 8.50 - 8 (4-Ply Rated)
Rear Tires	18 x 8.50 - 8 (4-Ply Rated)

**Body & Chassis**

Frame	Welded steel with DuraShield™ powder coat
Front Body & Finish	Injection Molded TPO
Rear Body & Finish	Injection Molded TPO
Standard Color	Patriot Blue

*Some items shown may be optional equipment*



**OPTIONS & FIELD INSTALLED ACCESSORIES\***

Item	Std	Opt	Fld
------	-----	-----	-----

**TIRES & WHEELS:**

**Front:**

Hole-N-One 18 x 8.50 - 8 (4 Ply Rated)	X		
USA Trail 18 x 8.50 - 8 (6 Ply Rated)		X	

**Rear:**

Hole-N-One 18 x 8.50 - 8 (4 Ply Rated)	X		
USA Trail 18 x 8.50 - 8 (6 Ply Rated)		X	

**COLORS :**

Body Color - Patriot Blue	X		
Body Color - Ivory		X	
Body Color - Bright White		X	
Body Color - Black		X	
Body Color - Forest Green		X	

**Seating:**

Seat Color - Tan	X		
Seat Color - Oyster		X	
Seat Color - Gray		X	

**OTHER PERFORMANCE:**

Convertible Carrier - Rear Seat	X		
Front Bumper/Brush Guard	X		
High Altitude Jetting 0 - 3K ft (0-900 m)	X		
Glove Box Door (Locking) Driver Side		X	
Glove Box Door (Locking) Passenger Side		X	
Rear View Mirror (Sun Canopy Required)			X

Item	Std	Opt	Fld
------	-----	-----	-----

**ELECTRICAL:**

**Battery Chargers:**

Powerwise QE 48V 10 ft (3.0 m) DC Cord	X		
World Charger QE 48V 10 ft (3.0 m) DC Cord		X	
Battery Charger Delete		X	

**Battery Options:**

Battery - T8V	X		
DC/DC Converter	X		
Battery Fill System - T8V		X	
Battery Fill System Nozzle, 20' Hose		X	
No Battery		X	

**Miscellaneous:**

Headlights	X		
Horn	X		
State of Charge Meter	X		
Common Key Switch	X		
Handheld Programming Unit		X	
Brake Lights		X	
LED Headlights		X	
Turn Signals with 4-Way Flashers		X	
Hour Meter		X	
12 Volt Outlet (Requires DC/DC Converter)		X	
CE Kit			X

**WEATHER PROTECTION:**

Sun Canopy (Top) Tan - 80"			X
Sun Canopy (Top) White - 80"			X
Sun Canopy (Top) Black - 80"			X
Weather Enclosure - Tan			X
Split Windshield			X

**TRANSAXLE:**

Limited Slip Differential		X	
---------------------------	--	---	--