



CUSHMAN

MODEL: 48V AC TUG
TYPE: ELECTRIC TOW TRACTOR
MODEL YEAR: 2018
Part No: 662554G01



PRODUCT SPECIFICATION
CONFIGURATION HIGHLIGHTS

Programmable AC Drive System:

- Solid State continuously variable 350A AC speed controller
- Dash mounted Keyswitch with Forward-Neutral-Reverse
- Drive by Wire with Hall Effect Throttle sensor
- Full torque, reduced speed reverse
- Factory programmable to application
- Full Diagnostic Capability(with Hand Held Device-Sold separately)

Battery Charger: 1000 Watt, 48 VDC, 120/230 VAC 50/60 Hz. Underwriters Laboratories (U.L.) Listed, (C.S.A. Certified)
Motor: AC Induction Drive, solid copper windings. Non vented 15.42 hp (11.5 kW) Peak.
Drive Train: Direct motor shaft connected to transaxle pinion shaft
Electrical System: 48 Volt DC; Six, 8 volt deep cycle storage batteries (78 minutes @ 75 Amps, 170 amp-hour @ 20 hr. discharge rate)
Transaxle: Differential with helical gears
Brakes: 2 wheel hydraulic drum brakes; Front Hyd drum brake optional. Automatic single point E-Brake.
Convenience: Cargo area with HIP Board that raises to provide access to powertrain. Seat with operator presence switch on adjustable track mounting.
Towing: Normal Drawbar Pull 170 lb (77kg) (775N) Maximum Drawbar Pull 1245 lb (565kg) (5537N) (Per ANSI B56.9)

PRODUCT OVERVIEW

Dimensions		Performance	
Overall Length	76.0 in (193 cm)	Seating Capacity	1 Person
Overall Width	34.5 in (87.6 cm)	Dry Weight	508 lb (230 kg) (Without Batteries)
Overall Height	37.0 in (94 cm) (Top of handlebars)	Curb Weight	936 lb (425 kg) with T875 Batteries
Wheel Base	52.5 in (133.4 cm)	Bed Load Capacity	450 lb (204 kg)
Front Wheel Track	N/A	Vehicle Load Capacity	650 lb (295 kg)
Rear Wheel Track	29.7 in (75.4 cm)	Inside Clearance Circle (handlebar)	Turnabout rear wheel
Cargo Box Width (inside)	33.5 in (85 cm)	Outside Clearance Circle (handlebar)	9 ft (2.8 m)
Cargo Box Length (inside)	21.0 in (53.3 cm)	Intersecting Aisle Clearance	55 in (140 cm) minimum
Cargo Box Depth (inside)	1.75 in (4.4 cm)	Speed (Level Ground)	7.8 mph ± 0.5 mph (12.6 kph ± 0.80 kph)
Cargo Box material	HIP Board	Towing Capacity	8000lbs (3629kg)
Vehicle Power		Steering & Suspension	
Power Source	48 Volts DC	Steering	Handlebar
Motor Type	AC Induction	Front Suspension	Torsion Block
Horsepower (kW)	S2 (60 Minutes) 5kW	Rear Suspension	Coil Over Shock
Electrical System	48 Volt	Service Brake	2 wheel hydraulic drum; Front wheel optional
Batteries (Qty, Type)	Six, 8 Volt Deep Cycle T875	Parking Brake	E-Brake
Key or Pedal Start	Pedal Start	Front & Rear Tires	USA Trail 4.80 x 8 (Load range B) Industrial
Battery Charger	1000W, 48V DC On-Board	Body & Chassis	
Speed Controller	350 Amp AC	Frame	Welded steel. DuraShield™ powder coat
Drive Train	Motor Shaft Direct Drive	Body & Finish	1 piece, 4-way embossed diamond pattern
Transaxle	Differential with helical gears	Standard Color	Cushman Safety Yellow
Direction Selection	Forward-Neutral-Reverse	Noise & Vibration	
Rear Axle Ratio	17.05:1	Noise	Sound pressure; continued A-weighted ≤ 70 db(A)
		Vibration, WBV	Highest RMS value of weighted acceleration is less than 2.5 m/s
		Vibration, HAV	Highest RMS value of weighted acceleration is less than 2.5 m/s
			The uncertainty of measurement is 0.12 m/s
			Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.

Type E and EE Vehicles certified to UL583
Some items shown may be optional equipment



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OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)*

Item	Std	Opt	Fld
TIRES & WHEELS:			
USA Trail 4.80 x 8 (Load range B) Industrial	X		
4 x 8 Solid Non-Marking		X	
BODY COLORS:			
Cushman Safety Yellow	X		
Hunter Green		X	
Flame Red		X	
Arctic White		X	
SEAT COLORS:			
Gray	X		
OTHER PERFORMANCE:			
Hitch, Clevis		X	
Hitch, Pintle		X	
Front Hydraulic Brake		X	
Miscellaneous:			
Non-UL	X		
Type 'E' Certification		X	
Type 'EE' Certification		X	
E-Stop (Standard w/ CE Option)		X	
CE Option (Requires Front Brake Option)		X	

Item	Std	Opt	Fld
ELECTRICAL:			
Battery Chargers:			
1000 Watt, 48 VDC, 120/230 VAC 50/60 Hz On- Board Charger	X		
1500 Watt, 48 VDC, 120/230 VAC 50/60 Hz On- Board Charger		X	
650 Watt 48 VDC, World Charger 3M cord (Off-Board Charger)		X	
No Charger Option		X	
Battery Tray Options:			
On Board Batt Tray, T875 Battery	X		
On Board Batt Tray, T890 Battery		X	
Electrical:			
Brake Light	X		
Halogen Headlight		X	
LED Headlight		X	
Horn	X		
CAN Instrument (Hour Meter & State of Charge Meter)	X		