# ERC080-120VH

# **ELECTRIC POWERED CUSHION TIRE TRUCKS**

The Yale® ERC-VH cushion tire, electric sit-down rider lift truck is available in 8,000 – 12,000 pound capacities and is designed for demanding applications that require clean, quiet-running, heavy-duty capability. These trucks offer plenty of power and high stacking ability, while also offering excellent ergonomics, reliability and maintenance ease. There are 4 models available in two wheelbases, a short (ERC080VH & ERC100VHS) and a long (ERC100VH & ERC120VH). The ERC100VH (long wheelbase) allows the use of a larger, higher capacity battery in the 10,000 pound capacity truck.

# **AC TRANSISTOR TRACTION CONTROL**

AC technology offers smooth acceleration and directional changes, proportional regenerative braking and the Auto Deceleration System. The controller converts battery power to three phase AC power, and adjusts frequency and current to meet performance demands. Performance control settings and extensive diagnostics are accessible by technicians through the dash display or a PC. A Vehicle Systems Manager utilizing CANbus technology monitors and controls key truck components and systems. The advanced thermal management system monitors component temperature and gradually adjusts performance to prevent damage to key components.



# CONTROLLER AREA NETWORK (CANBUS)

CANbus technology streamlines communications between truck systems through one main master controller, the Vehicle System Manager (VSM). Dash display, traction controller and pump controller are all controlled via the CANbus network. A connection point is provided for interface with a service PC. Intellix VSM acts as a master truck controller. providing extensive monitoring and control of truck functions and systems. CANbus technology reduces wiring complexity and enables comprehensive communications between truck systems. The ergonomically positioned dash display transmits continual feedback to the operator and allows for communication of service codes.

# **ELECTRICAL SYSTEM**

The ERC-VH utilizes AC motor technology designed for exceptional performance. It uses a brushless induction motor for high starting torque and smooth rapid acceleration. An external speed sensor provides feedback to the control system, allowing motor speed and direction to be continuously monitored.

## **POWER ASSISTED BRAKING**

Power Assisted Braking is accomplished via the VSM. The VSM monitors brake-line pressure. When this pressure exceeds a set threshold the VSM sends a signal to the traction controller to decelerate the traction motor proportionally to the brake pressure. The higher the brake pedal pressure being applied, the more quickly the truck will decelerate. The wet disc brakes in conjunction with the Power Assist Braking system, reduce brake pedal effort and provides increased stopping power. These brakes offer 4,000 hr. service intervals (oil change) with no adjustments

required and simplified brake line plumbing for durability. The master cylinder is sealed and has an external fluid level sensor connected to a warning icon on the instrument module. The ERC-VH features an Automatic Park Brake that is applied by a spring when the truck is stationary. Upon sensing a demand at the accelerator pedal, the brake is released. A manual override (located underneath the floor plate) is provided to disengage the brake if the truck has to be moved during service conditions in the absence of power on the truck. The standard Auto Deceleration System automatically slows the truck when the operator's foot is removed from the accelerator pedal, extending brake life.

## **VOLTAGE**

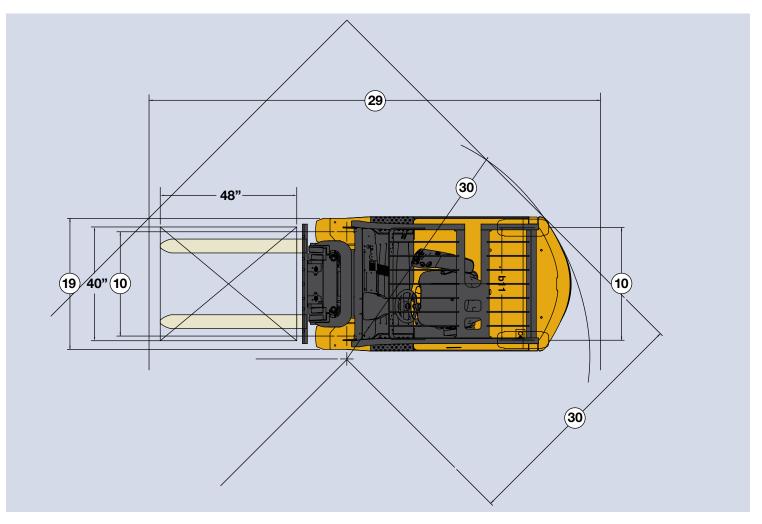
36, 48, and 80 volt systems are available in two battery compartment sizes to meet a variety of application requirements.

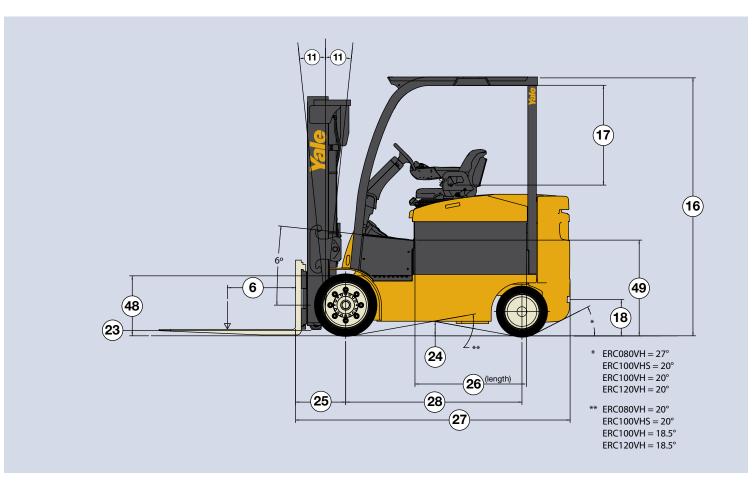
## **OPERATOR INTERFACE DISPLAY**

The repositioned display is conveniently located in the upper right area of the operator's compartment. The display includes an hour meter, LCD display for status codes and descriptions, battery discharge indicator with lift interrupt. warning icons for brake fluid, seat belt indicator, performance mode indicator, and parking brake indicator. The display also permits access for service technicians to adjust performance control settings. allowing the truck to be customized to meet customer applications. Additionally, extensive diagnostics allow service technicians to quickly troubleshoot problems. Operator selectable performance modes are standard. Available options include: Operator Password, Pre-shift Operator Checklist, Impact Monitor, System Monitor and Maintenance Reminder.

(continued on back)







					1					
		Manufacturer					Yale			
A	2	Model Designation				ERC080VH  Electric				
GENERAL	3	Power				Sit				
픙	5	Operation Rated Capacity			lb. (kg)		8000 (3629)			
	6				in. (kg)		24 (610)			
Ś	7		Load Center Tire Type - Cushion, Solid, Pneumatic, etc. Drive / Steer				Cushion / Cushion			
量	8	Tire Size Drive / Steer			in.					
TIRES/WHEELS	9	Wheels - Number X=Driven Drive / Steer			1111.		22 x 9 x 16 / 18 x 6 x 12.1 2X / 2			
뿔	10	Tread	Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)		37 / 41 / 39.5 (941 / 1041 / 100	13)		
_	11	Mast Tilt	Std Opt	degrees		5F/5B 8F/5B				
	12	Mast - Lowered Height		Std Mast	in. (mm)		84.1 (2134)			
	13				in. (mm)		5 (150)			
			Opt 2 Stg Full Free Lift Mast		in. (mm)		35 / 53 (900 / 1352)			
	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift M	ast	in. (mm)		120 (3050)			
	15	Mast - Extended Height	Std Mast with / without LBR		in. (mm)		169 / 149 (4284 / 3783)			
	16	Overhead Guard Height	Std / Opt / Opt Flat Plate		in. (mm)	9	4 / 91 / 87.1 (2388 / 2311 / 22	12)		
	17	SIP to Bottom Std OHG	Seat Depressed	Std / Susp / Swivel	in. (mm)	38	3.7 / 38.9 / 38.9 (984 / 989 / 9	89)		
	18	Tow Pin Height	Vertical Center of Pin		in. (mm)		12.7 (324)			
	19	Overall Width	Standard Tread / Wide Tread		in. (mm)		47.2 / 50 (1200 / 1270)			
2	20	Forks	Thickness x Width x Length	l a	in. (mm)		2 x 4.9 x 42 (50 x 125 x 1067	)		
DIMENSIONS	21	Standard Carriage Width		Class III	in. (mm)		42 (1067)			
	22	Floor to Top of Battery Roll Ground Clearance		NI /DI	in. (mm)		20 (509)			
	23 24	Ground Clearance	Lowest Point	NL/RL NL/RL	in. (mm)		3.8 / 3.5 (96 / 90)			
	25	Load Distance	Center of Truck  Center of Wheel to Face of Fo	· ·	in. (mm) in. (mm)		5.3 / 5.1 (134 / 130) 17.6 (447)			
	26	Battery Compartment	Height	Without / With Battery Rollers	in. (mm)		24.4 / 24 (620 / 609)			
	120	Dattery Compartment	Width	Without / With Dattery Honers	in. (mm)		45.4 (1152)			
			Witti	Nominal	SIZE		39			
	$\vdash$		Length	Actual	in. (mm)		39.2 (996)			
	27	Length to Face of Forks	<u> </u>	Chassis Length	in. (mm)		96.5 (2451)			
	28	Wheelbase	Wheelbase		in. (mm)	62 (1574)				
	29	29 Right Angle Stack			in. (mm)	150.8 (3831)				
	30	Equal Aisle	90° Intersecting Aisle		in. (mm)	79.4 (2017)				
	31	Outside Turning Radius			in. (mm)	85.2 (2165)				
토	32	Truck Weight	Without Battery	NL	lb. (kg)	11070 (5021)				
WEIGHT	33	Axle Loading - Drive	Static with Max. Wt. Battery	NL/RL	lb. (kg)	6728 / 20098 (3052 / 9116)				
_	34	Axle Loading - Steer	Static with Max. Wt. Battery	NL/RL	lb. (kg)	9141 / 3771 (4146 / 1710)				
	-			VOLTO	Standard Performance 36 48 80					
	26	Trough Chood	Extended Chift OFF	ML / DL	VOLTS		12.7 / 12.2 (20.4 / 19.6)	12.7/12.2 (20.4/19.6)		
	36	Travel Speed	Extended Shift OFF Extended Shift ON	NL/RL NL/RL	mph (km/h) mph (km/h)	11.4 / 9.7 (18.3 / 15.6) 9.8 / 8.4 (15.8 / 13.5)	12.7 / 12.2 (20.4 / 19.6)	12.5/10.8 (20.1/17.4)		
	27	Lift Speed	Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	94 / 58 (0.48 / 0.296)	118 / 73 (0.6 / 0.37)	118/73 (0.6/0.37)		
			Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	85 / 53 (0.4336 / 0.267)	107 / 66 (0.542 / 0.334)	107/66 (0.542/0.334)		
띟			Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	88 / 54 (0.448 / 0.276)	110 / 68 (0.56 / 0.345)	110/68 (0.56/0.345)		
ΙŽ	38	Lower Speed	Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	,	94 / 104 (0.48 / 0.53)	,		
8			Opt 2 Stg FFL Mast	NL / RL	ft/min (m/sec)		75 / 91 (0.38 / 0.46)			
PERFORMANCE			Opt 3 Stg FFL Mast	NL / RL	ft/min (m/sec)		77 / 98 (0.39 / 0.5)			
	39	Gradability	5 Minute Rating	NL / RL	%	23 / 14.1	29.3 / 17.8	30.1 / 18.3		
			60 Minute Rating	NL / RL	%	8.4 / 5.4	10.6 / 6.8	10.9 / 7		
	40	Drawbar Pull	5 Minute Rating	NL / RL	lbf	3327 / 3193	4023 / 3864	4104 / 3941		
			60 Minute Rating	NL/RL	lbf	1246 / 1232	1511 / 1497	1541 / 1526		
	41	Brake	Method of Control	Service / Parking			Hydraulic / Spring Applied			
	40	Pattory	Method of Operation	Service / Parking			Foot / Automatic			
	42	Battery		Туре			Lead Acid			
					VOLTS	36	Standard Performance 48	80		
ELECTRIC	43	Traction Motor		60 Minute Rating	hp (kW)	28.8 (21.5)	28.8 (21.5)	28.2 (21)		
E	44	Pump Motor		15 % Rating	hp (kW)	35.5 (26.5)	48.3 (36)	48.3 (36)		
ᇳ	45	Traction Motor		Type / Control Method	F \/	22.2 (20.0)	AC / Transistor	(00)		
	46	Pump Motor		Type / Control Method			AC / Transistor			
	47	Number of Speeds		Traction / Pump		Inf	initely Variable / Infinitely Var	iable		
	48	Step Height			in. (mm)		21.1 (536)			
œ	49	Floor Height		Lowest Point	in. (mm)		33.7 (855)			
100	50	Attachment Relief Pressur			psi (bar)		2248 (155)			
E							10 (00)			
OTHER	51 52	Auxiliary Oil Flow Sound Level	3rd and 4th Function  Measured per ANSI B56.11.5		gal/min (I/min) dB (A)		16 (60) 69/66			

		Manufacturer					Yale				
4	2	Model Designation					ERC100VHS  Electric				
GENERAL	3	Power				Sit					
<u> </u>	<u>4</u> 5	Operation Rated Capacity			lb. (kg)						
	6	Load Center			in. (kg)		10000 (4536) 24 (610)				
U		Tire Type - Cushion, Solid,	Dogumatic atc	Drive / Steer	III. (IIIII)		Cushion / Cushion				
ı.	8	Tire Size	r neumane, etc.	Drive / Steer	in.		22 x 12 x 16 / 18 x 7 x 12.1				
	9	Wheels - Number	X=Driven	Drive / Steer			2X / 2				
TIRES/WHEELS	10		Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)	41	0 / 43.9 / 38.3 (1015 / 1115 / 9	72)			
_	11	Mast Tilt	- Contor or Tirou	Std Opt	degrees	.,	5F / 5B 8F / 5B	· <b>-</b> )			
	12			Std Mast	in. (mm)		84.2 (2138)				
	13				in. (mm)		5 (150)				
			Opt 2 Stg Full Free Lift Mast	-	in. (mm)		35 / 48 (897 / 1222)				
	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)		109 (2790)				
	15	Mast - Extended Height	Std Mast with / without LBR		in. (mm)		159 / 144 (4031 / 3657)				
	16	Overhead Guard Height	Std / Opt / Opt Flat Plate		in. (mm)	9	4 / 91 / 87.1 (2388 / 2311 / 22	12)			
	17	SIP to Bottom Std OHG	Seat Depressed	Std / Susp / Swivel	in. (mm)	38	3.7 / 38.9 / 38.9 (984 / 989 / 9	89)			
	18	Tow Pin Height	Vertical Center of Pin		in. (mm)		12.7 (324)				
	19		Standard Tread / Wide Tread		in. (mm)		52 / 55.9 (1320 / 1420)				
U	20		Thickness x Width x Length	I a	in. (mm)		2 x 5.9 x 42 (50 x 150 x 1067				
DIMENSIONS	21	Standard Carriage Width		Class III	in. (mm)		42 (1067)				
ij	22			NI /DI	in. (mm)		20 (509)				
<b>E</b>	23 24		Lowest Point Center of Truck	NL/RL NL/RL	in. (mm)		3.6 / 3.4 (92 / 87)				
	25		Center of Wheel to Face of F	· ·	in. (mm) in. (mm)		5.3 / 5.1 (134 / 130) 17.8 (452)				
	26		Height	Without / With Battery Rollers	in. (mm)		24.4 / 24 (620 / 609)				
	120	Dattery Compartment	Width	without / with battery fronters	in. (mm)		45.4 (1152)				
	$\vdash$		Witti	Nominal	SIZE		39"				
	$\vdash$		Length	Actual	in. (mm)		39.2 (996)				
	27	Length to Face of Forks	<b></b>	Chassis Length	in. (mm)		100.3 (2548)				
	28		Wheelbase		in. (mm)	62 (1574)					
	29	30 Equal Aisle 90° Intersecting Aisle			in. (mm)	154 (3911)					
	30				in. (mm)						
	31	Outside Turning Radius			in. (mm)	83 (2107) 88.2 (2240)					
늘	32		Without Battery	NL	lb. (kg)	13070 (5928)					
WEIGHT	33		Static with Max. Wt. Battery	Battery NL/RL I	lb. (kg)	6798 / 23542 (3084 / 10678) 11069 / 4325 (5021 / 1962)					
=	34	Axle Loading - Steer	Static with Max. Wt. Battery	NL/RL	lb. (kg)						
						Standard Performance					
	00	7 10 1	F	I NII / DI	VOLTS	36	48	80			
	36	Travel Speed	Extended Shift OFF	NL/RL	mph (km/h)	10.3 / 8.8 (16.6 / 14.2)	11.4 / 11 (18.3 / 17.7)	11.4 / 11 (18.3 / 17.7)			
	27	Lift Cnood	Extended Shift ON Std 2 Stg LFL Mast	NL/RL	mph (km/h)	9.1 / 7.7 (14.6 / 12.4)	11.4 / 9.9 (18.3 / 15.9)	11.4 / 9.9 (18.3 / 15.9)			
	31	Lift Speed	Opt 2 Stg FFL Mast	NL/RL NL/RL	ft/min (m/sec) ft/min (m/sec)	71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219)	89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274)	89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274)			
	<u> </u>		Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	68 / 44 (0.346 / 0.223)	85 / 55 (0.433 / 0.279)	85 / 55 (0.433 / 0.279)			
	38	Lower Speed	Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	007 11 (0.0107 0.220)	73 / 89 (0.37 / 0.45)	007 00 (0.1007 0.270)			
ä		201101 0 0 0 0 0	Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)		57 / 81 (0.29 / 0.41)				
PERFORMANCE			Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)		63 / 87 (0.32 / 0.44)				
Δ	39	Gradability	5 Minute Rating	NL/RL	%	19.4 / 11.8	24.6 / 14.7	25.2 / 15.1			
			60 Minute Rating	NL/RL	%	7.1 / 4.5	9.1 / 5.6	9.2 / 5.8			
	40	Drawbar Pull	5 Minute Rating	NL/RL	lbf	3323 / 3185	3994 / 3832	4074 / 3909			
			60 Minute Rating	NL/RL	lbf	1242 / 1224	1497 / 1479	1527 / 1509			
							Hydraulic / Spring Applied				
	41	Brake	Method of Control	Service / Parking							
			Method of Control  Method of Operation	Service / Parking			Foot / Automatic				
	41						Foot / Automatic Lead Acid				
				Service / Parking	WOLTE	20	Foot / Automatic Lead Acid Standard Performance	90			
SIG.	42	Battery		Service / Parking Type	VOLTS hn (kW)	<b>36</b>	Foot / Automatic Lead Acid Standard Performance 48	80 28.2 (21)			
ECTRIC	42	Battery Traction Motor		Service / Parking Type 60 Minute Rating	hp (kW)	28.8 (21.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5)	28.2 (21)			
FIECTRIC	42 43 44	Battery Traction Motor Pump Motor		Service / Parking Type  60 Minute Rating 15 % Rating			Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36)				
FIECTRIC	42 43 44 45	Battery  Traction Motor  Pump Motor  Traction Motor		Service / Parking Type  60 Minute Rating 15 % Rating Type / Control Method	hp (kW)	28.8 (21.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor	28.2 (21)			
FIFTRIC	42 43 44	Battery  Traction Motor  Pump Motor  Traction Motor		Service / Parking Type  60 Minute Rating 15 % Rating	hp (kW)	28.8 (21.5) 35.5 (26.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor	28.2 (21) 48.3 (36)			
FIFCTRIC	42 43 44 45 46	Traction Motor Pump Motor Traction Motor Pump Motor Pump Motor Number of Speeds		Service / Parking Type  60 Minute Rating 15 % Rating Type / Control Method Type / Control Method	hp (kW)	28.8 (21.5) 35.5 (26.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor	28.2 (21) 48.3 (36)			
	42 43 44 45 46 47 48	Battery  Traction Motor Pump Motor Traction Motor Pump Motor Pump Motor Number of Speeds Step Height		Service / Parking Type  60 Minute Rating 15 % Rating Type / Control Method Type / Control Method	hp (kW) hp (kW)	28.8 (21.5) 35.5 (26.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Variable	28.2 (21) 48.3 (36)			
	42 43 44 45 46 47 48 49 50	Traction Motor Pump Motor Traction Motor Pump Motor Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressur	Method of Operation	Service / Parking Type  60 Minute Rating 15 % Rating Type / Control Method Type / Control Method Traction / Pump	hp (kW) hp (kW) in. (mm)	28.8 (21.5) 35.5 (26.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Variable / 10.56)	28.2 (21) 48.3 (36)			
OTHER   FIEGTRIC	42 43 44 45 46 47 48 49 50 51	Battery  Traction Motor Pump Motor Traction Motor Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressur Auxiliary Oil Flow	Method of Operation	Service / Parking Type  60 Minute Rating 15 % Rating Type / Control Method Type / Control Method Traction / Pump	hp (kW) hp (kW) in. (mm) in. (mm)	28.8 (21.5) 35.5 (26.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Variable / 136) 33.7 (855)	28.2 (21) 48.3 (36)			
	42 43 44 45 46 47 48 49 50	Battery  Traction Motor Pump Motor Traction Motor Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressur Auxiliary Oil Flow	Method of Operation	Service / Parking Type  60 Minute Rating 15 % Rating Type / Control Method Type / Control Method Traction / Pump  Lowest Point	hp (kW) hp (kW)  in. (mm) in. (mm) psi (bar)	28.8 (21.5) 35.5 (26.5)	Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Variable / 33.7 (855) 2248 (155)	28.2 (21) 48.3 (36)			

	1	Manufacturer					Yale				
_	2	Model Designation				ERC100VH					
GENERAL	3	Power					Electric				
	4	Operation					Sit				
5	5	Rated Capacity			lb. (kg)	10000 (4536)					
	6	Load Center			in. (mm)		24 (610)				
2	7	Tire Type - Cushion, Solid,	Pneumatic etc	Drive / Steer	()		Cushion / Cushion				
單	8	Tire Size	i noumatio, oto.	Drive / Steer	in.		22 x 12 x 16 / 18 x 7 x 12.1				
TIRES/WHEELS	9	Wheels - Number	Drive / Steer	····		2X / 2					
篇	10	Tread	X=Driven Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)	40	0 / 43.9 / 38.3 (1015 / 1115 / 9)	70\			
F	11	Mast Tilt	Center or tires		` '	40	5F / 5B 8F / 5B	12)			
				Std Opt	degrees						
	12	Mast - Lowered Height	014 0 04-1 1-14-4 5 1 14 M	Std Mast	in. (mm)		84.2 (2138)				
	13	Free Lift - Top of Fork	Std 2 Stg Limited Free Lift Ma		in. (mm)		5 (150)				
			Opt 2 Stg Full Free Lift Mast v		in. (mm)		35 / 48 (897 / 1222)				
	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Ma	ast	in. (mm)		109 (2790)				
	15	Mast - Extended Height	Std Mast with / without LBR		in. (mm)		159 / 144 (4031 / 3657)				
	16	Overhead Guard Height	Std / Opt / Opt Flat Plate		in. (mm)		4 / 91 / 87.1 (2388 / 2311 / 22				
	17	SIP to Bottom Std OHG	Seat Depressed	Std / Susp / Swivel	in. (mm)	38	3.7 / 38.9 / 38.9 (984 / 989 / 98	89)			
	18	Tow Pin Height	Vertical Center of Pin		in. (mm)		12.7 (324)				
	19	Overall Width	Standard Tread / Wide Tread		in. (mm)		52 / 55.9 (1320 / 1420)				
2	20	Forks	Thickness x Width x Length	I	in. (mm)		2 x 5.9 x 42 (50 x 150 x 1067)				
DIMENSIONS	21	Standard Carriage Width		Class III	in. (mm)		42 (1067)				
	22	Floor to Top of Battery Roll			in. (mm)		20 (509)				
	23	Ground Clearance	Lowest Point	NL/RL	in. (mm)		3.6 / 3.4 (92 / 87)				
_	24	Ground Clearance	Center of Truck	NL/RL	in. (mm)		5.3 / 5.1 (134 / 130)				
	25	Load Distance	Center of Wheel to Face of Fo	rks	in. (mm)		17.8 (452)				
	26	Battery Compartment	Height	Without / With Battery Rollers	in. (mm)		24.4 / 24 (620 / 609)				
		Width			in. (mm)	45.4 (1152)					
				Nominal	SIZE		45"				
			Length	Actual	in. (mm)		45.7 (1161)				
	27	Length to Face of Forks	Chassis Length		in. (mm)		103.1 (2621)				
	28	Wheelbase			in. (mm)	68.5 (1739)					
	29	Right Angle Stack			in. (mm)	158 (4012)					
	30	Equal Aisle	sle 90° Intersecting Aisle			84.3 (2141)					
	31	Outside Turning Radius			in (mm)	92.2 (2341)					
	•				in. (mm)		92.2 (2341)				
=	32	Truck Weight	Without Battery	NL	lb. (kg)		92.2 (2341) 12300 (5579)				
EIGHT		•	Without Battery Static with Max. Wt. Battery	NL NL/RL	· ` '		, ,				
WEIGHT	32	Truck Weight	· ·		lb. (kg)		12300 (5579)				
WEIGHT	32 33	Truck Weight  Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	lb. (kg)		12300 (5579) 7708 / 23813 (3496 / 10801)	)			
WEIGHT	32 33	Truck Weight  Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	lb. (kg)	36	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)	80			
WEIGHT	32 33	Truck Weight  Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	Ib. (kg) Ib. (kg) Ib. (kg)	<b>36</b> 10.3 / 8.8 (16.6 / 14.2)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) <b>Standard Performance</b>				
WEIGHT	32 33 34	Truck Weight  Axle Loading - Drive  Axle Loading - Steer	Static with Max. Wt. Battery Static with Max. Wt. Battery	NL/RL NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS		12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48	80			
WEIGHT	32 33 34	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF	NL/RL NL/RL	lb. (kg)	10.3 / 8.8 (16.6 / 14.2)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) <b>Standard Performance</b> <b>48</b> 11.4 / 11 (18.3 / 17.7)	<b>80</b> 11.4 / 11 (18.3 / 17.7)			
	32 33 34 36	Truck Weight  Axle Loading - Drive  Axle Loading - Steer	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON	NL/RL NL/RL NL/RL NL/RL NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS mph (km/h) mph (km/h)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) <b>Standard Performance</b> 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9)	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9)			
	32 33 34 36	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast	NL/RL NL/RL NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29)	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29)			
	32 33 34 36 37	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast	NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274)	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274)			
	32 33 34 36	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed  Lift Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279)	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274)			
	32 33 34 36 37	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed  Lift Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Std 2 Stg LFL Mast	NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45)	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274)			
PERFORMANCE WEIGHT	32 33 34 36 37	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed  Lift Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Std 2 Stg LFL Mast Opt 3 Stg FFL Mast	NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL  NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41)	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274)			
	32 33 34 36 37 38	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL	lb. (kg) lb. (kg) lb. (kg)  VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44)	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279)			
	32 33 34 36 37 38	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL	Ib. (kg) Ib. (kg) Ib. (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 25.8 / 15.3			
	32 33 34 36 37 38 38	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability	Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Std 2 Stg LFL Mast Opt 3 Stg FFL Mast	NL/RL	Ib. (kg) Ib. (kg) Ib. (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830) Standard Performance 48 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7	80 11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 25.8 / 15.3 9.4 / 5.9			
	32 33 34 36 37 38 38	Truck Weight  Axle Loading - Drive  Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Std 2 Stg LFL Mast Opt 3 Stg FFL Mast Std Di 3 Stg FFL Mast Opt 3 Stg FFL Mast Sminute Rating 60 Minute Rating 5 Minute Rating	NL/RL	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885			
	32 33 34 36 37 38 38 40	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull	Static with Max. Wt. Battery Static with Max. Wt. Battery  Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Std 2 Stg LFL Mast Opt 3 Stg FFL Mast Std 2 Stg LFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Sminute Rating 60 Minute Rating 60 Minute Rating	NL/RL	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885			
	32 33 34 36 37 38 38 40	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185	12300 (5579)  7708 / 23813 (3496 / 10801)  10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7)  11.4 / 9.9 (18.3 / 15.9)  89 / 57 (0.45 / 0.29)  84 / 54 (0.425 / 0.274)  85 / 55 (0.433 / 0.279)  73 / 89 (0.37 / 0.45)  57 / 81 (0.29 / 0.41)  63 / 87 (0.32 / 0.44)  25.2 / 15  9.2 / 5.7  3970 / 3809  1488 / 1470  Hydraulic / Spring Applied	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885			
	32 33 34 36 37 38 39 40 41	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL  Service / Parking	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470  Hydraulic / Spring Applied Foot / Automatic Lead Acid	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885			
PERFORMANCE	32 33 34 36 37 38 39 40 41	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL  Service / Parking	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470  Hydraulic / Spring Applied Foot / Automatic	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885			
PERFORMANCE	32 33 34 36 37 38 38 40 41	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL  Service / Parking	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf Ibf	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500			
PERFORMANCE	32 33 34 36 37 38 38 40 41 42 43	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL Service / Parking Type	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) % Ibf Ibf	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500			
	32 33 34 36 37 38 38 40 41 41 42 43 44	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL  Service / Parking  Type	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)  VOLTS hp (kW)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5)	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500			
PERFORMANCE	32 33 34 36 37 38 38 40 41 42 43	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery  Traction Motor  Pump Motor	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL Service / Parking Type  60 Minute Rating 15 % Rating	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)  VOLTS hp (kW)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36)	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500 80 28.2 (21)			
PERFORMANCE	33 34 36 37 38 39 40 41 42 43 44 45 46	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery  Traction Motor Pump Motor Traction Motor	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL Service / Parking Type  60 Minute Rating 15 % Rating Type / Control Method	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)  VOLTS hp (kW)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224 36 28.8 (21.5) 35.5 (26.5)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500 80 28.2 (21) 48.3 (36)			
PERFORMANCE	33 34 36 37 38 39 40 41 42 43 44 45	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery  Traction Motor Pump Motor Traction Motor Pump Motor	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL / RL  Service / Parking  Type  60 Minute Rating  15 % Rating  Type / Control Method  Type / Control Method	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)  VOLTS hp (kW)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224 36 28.8 (21.5) 35.5 (26.5)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor nitely Variable / Infinitely Variable / Infi	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500 80 28.2 (21) 48.3 (36)			
ELECTRIC PERFORMANCE	32 33 34 36 37 38 38 40 41 42 42 43 44 45 46 47 48	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery  Traction Motor Pump Motor Traction Motor Pump Motor Number of Speeds	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 60 Minute Rating Method of Control	NL/RL  Service / Parking  Type  60 Minute Rating  15 % Rating  Type / Control Method  Traction / Pump	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf Ibf VOLTS hp (kW) hp (kW)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224 36 28.8 (21.5) 35.5 (26.5)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor nitely Variable / Infinitely	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500 80 28.2 (21) 48.3 (36)			
ELECTRIC PERFORMANCE	33 34 36 37 38 38 40 41 42 42 43 44 45 46 47 48 49	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery  Traction Motor Pump Motor Traction Motor Pump Motor Number of Speeds Step Height	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating Method of Control Method of Operation	NL / RL  Service / Parking  Type  60 Minute Rating  15 % Rating  Type / Control Method  Type / Control Method	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)  WOLTS hp (kW) hp (kW) in. (mm)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224 36 28.8 (21.5) 35.5 (26.5)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor nitely Variable / Infinitely Variable / Infi	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500 80 28.2 (21) 48.3 (36)			
PERFORMANCE	33 34 36 37 38 38 40 41 42 42 43 44 45 46 47 48 49 50	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery  Traction Motor Pump Motor Traction Motor Pump Motor Number of Speeds Step Height Floor Height	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating Method of Control Method of Operation	NL/RL  Service / Parking  Type  60 Minute Rating  15 % Rating  Type / Control Method  Traction / Pump	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf Ibf VOLTS hp (kW) hp (kW) in. (mm) psi (bar)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224 36 28.8 (21.5) 35.5 (26.5)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor nitely Variable / Infinitely Variable / Infinitely Variable / Infinitely Variable / Infinitely Variable / 155) 2248 (155)	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500 80 28.2 (21) 48.3 (36)			
ELECTRIC PERFORMANCE	33 34 36 37 38 38 40 41 42 42 43 44 45 46 47 48 49	Truck Weight Axle Loading - Drive Axle Loading - Steer  Travel Speed  Lift Speed  Lower Speed  Gradability  Drawbar Pull  Brake  Battery  Traction Motor Pump Motor Traction Motor Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressure	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift OFF Extended Shift ON Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating Method of Control Method of Operation	NL / RL  Service / Parking  Service / Parking  Type  60 Minute Rating  15 % Rating  Type / Control Method  Traction / Pump  Lowest Point	Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg) Ib. (kg)  VOLTS  mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % Ibf Ibf VOLTS hp (kW) hp (kW) in. (mm) in. (mm)	10.3 / 8.8 (16.6 / 14.2) 9.1 / 7.7 (14.6 / 12.4) 71 / 46 (0.36 / 0.232) 67 / 43 (0.34 / 0.219) 68 / 44 (0.346 / 0.223) 19.9 / 11.9 7.3 / 4.5 3322 / 3185 1241 / 1224 36 28.8 (21.5) 35.5 (26.5)	12300 (5579) 7708 / 23813 (3496 / 10801) 10139 / 4035 (4599 / 1830)  Standard Performance  48  11.4 / 11 (18.3 / 17.7) 11.4 / 9.9 (18.3 / 15.9) 89 / 57 (0.45 / 0.29) 84 / 54 (0.425 / 0.274) 85 / 55 (0.433 / 0.279) 73 / 89 (0.37 / 0.45) 57 / 81 (0.29 / 0.41) 63 / 87 (0.32 / 0.44) 25.2 / 15 9.2 / 5.7 3970 / 3809 1488 / 1470 Hydraulic / Spring Applied Foot / Automatic Lead Acid Standard Performance 48 28.8 (21.5) 48.3 (36) AC / Transistor AC / Transistor nitely Variable / Infinitely	80 11.4/11 (18.3/17.7) 11.4/9.9 (18.3/15.9) 89/57 (0.45/0.29) 84/54 (0.425/0.274) 85/55 (0.433/0.279) 25.8/15.3 9.4/5.9 4049/3885 1518/1500 80 28.2 (21) 48.3 (36)			

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		Ļ	Manufacturer					Yale				
=	2 2		Model Designation					ERC120VH  Electric				
GENERAL	3		Power				Sit					
Ä	្ន <u>ី</u> 4		Operation Rated Capacity			lb. (kg)		12000 (5443)				
	6	-	Load Center			in. (kg)		24 (610)				
U			Tire Type - Cushion, Solid,	Dnaumatic atc	Drive / Steer	III. (IIIII)		Cushion / Cushion				
H	8		Tire Size	r neumane, etc.	Drive / Steer	in.		22 x 12 x 16 / 18 x 7 x 12.1				
	9		Wheels - Number	X=Driven	Drive / Steer			2X / 2				
TIRES/WHEELS	1	10	Tread	Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)	4	0 / 43.9 / 38.3 (1015 / 1115 / 9	72)			
_		1	Mast Tilt	Ochici di Ilica	Std Opt	degrees	, i	5F / 5B 8F / 5B	12)			
	- ⊢	2			Std Mast	in. (mm)		84.2 (2138)				
	- ⊢	3 Free Lift - Top of Fork Std 2 Stg Limited Free Lift Mas			in. (mm)		5 (150)					
	ľ		Opt 2 Stg Full Free Lift Mast v		-	in. (mm)		35 / 48 (897 / 1222)				
	1	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)		109 (2790)				
	1	15	Mast - Extended Height	Std Mast with / without LBR		in. (mm)		159 / 144 (4031 / 3657)				
	1	16	Overhead Guard Height	Std / Opt / Opt Flat Plate		in. (mm)	9	4 / 91 / 87.1 (2388 / 2311 / 22	12)			
	1	17	SIP to Bottom Std OHG	Seat Depressed	Std / Susp / Swivel	in. (mm)	38	3.7 / 38.9 / 38.9 (984 / 989 / 9	89)			
	1	18	Tow Pin Height	Vertical Center of Pin		in. (mm)		12.7 (324)				
		19	Overall Width	Standard Tread / Wide Tread		in. (mm)		52 / 55.9 (1320 / 1420)				
U	2 2	20	Forks	Thickness x Width x Length	I a	in. (mm)		2.4 x 5.9 x 42 (60 x 150 x 106)	7)			
DIMENCIONS	2	21	Standard Carriage Width		Class III	in. (mm)		42 (1067)				
Ě	2	22	Floor to Top of Battery Roll Ground Clearance		NI /DI	in. (mm)		20 (509)				
	2	23 24	Ground Clearance	Lowest Point Center of Truck	NL/RL NL/RL	in. (mm)		3.6 / 3.4 (92 / 87)				
		24 25	Load Distance	Center of Wheel to Face of F	· ·	in. (mm) in. (mm)		5.3 / 5.1 (134 / 130) 18.2 (462)				
	_	26	Battery Compartment	Height	Without / With Battery Rollers	in. (mm)		24.4 / 24 (620 / 609)				
	\ <b>-</b>	2V	Dattery Compartment	Width	without / with battery fronters	in. (mm)		45.4 (1152)				
				Witti	Nominal	SIZE		45"				
	┢			Length	Actual	in. (mm)		45.7 (1161)				
	2	27	Length to Face of Forks	<b></b>	Chassis Length	in. (mm)		107.2 (2724)				
	- ⊢	28	Wheelbase	Wheelbase		in. (mm)	68.5 (1739)					
		29 Right Angle Stack			in. (mm)	161.5 (4101)						
	3	30				in. (mm)		85.7 (2178)				
	3	31	Outside Turning Radius			in. (mm)	95.3 (2420)					
늘	3	32	Truck Weight	Without Battery	NL	lb. (kg)	13860 (6287)					
WEIGHT	3	33	Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	lb. (kg)	7556 / 26951 (3427 / 12225)					
=	3	34	Axle Loading - Steer	Static with Max. Wt. Battery	NL/RL	lb. (kg)	11848 / 4453 (5374 / 2020)					
	-	_				Standard Performance						
		20	Towns Out and	Fortanded Objet OFF	NI /BI	VOLTS	36	48	80			
	3	36	Travel Speed	Extended Shift OFF Extended Shift ON	NL/RL NL/RL	mph (km/h)	9.4 / 8 (15.1 / 12.9) 8.2 / 7 (13.2 / 11.3)	10.4 / 10 (16.7 / 16.1)	10.4 / 10 (16.7 / 16.1)			
	2	27	Lift Speed	Std 2 Stg LFL Mast	NL/RL	mph (km/h) ft/min (m/sec)	71 / 43 (0.36 / 0.216)	10.4 / 9 (16.7 / 14.5) 89 / 53 (0.45 / 0.27)	10.4 / 9 (16.7 / 14.5) 89 / 53 (0.45 / 0.27)			
	F	"	Litt opcou	Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	67 / 40 (0.34 / 0.204)	84 / 50 (0.425 / 0.255)	84 / 50 (0.425 / 0.255)			
5	₫  -	$\dashv$		Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	68 / 41 (0.346 / 0.208)	85 / 51 (0.433 / 0.26)	85 / 51 (0.433 / 0.26)			
	3	38	Lower Speed	Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	( ,)	73 / 89 (0.37 / 0.45)	30,01 (01100,0120)			
PEREORMANCE	5			Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)		57 / 81 (0.29 / 0.41)				
ä				Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)		63 / 87 (0.32 / 0.44)				
_	3	39	Gradability	5 Minute Rating	NL/RL	%	18.5 / 10.4	22.8 / 13.1	23.3 / 13.4			
				60 Minute Rating	NL/RL	%	6.6 / 4	8.3 / 5.1	8.5 / 5.1			
	4	10	Drawbar Pull	5 Minute Rating	NL / RL	lbf	3320 / 3179	3918 / 3755	3996 / 3830			
				60 Minute Rating	NL/RL	lbf	1239 / 1218	1466 / 1445	1495 / 1474			
	4	11	Brake	Method of Control	Service / Parking			Hydraulic / Spring Applied				
		10	Dettern	Method of Operation	Service / Parking			Foot / Automatic				
	4	12	Battery		Туре			Lead Acid				
1						VOLTE	26	Standard Performance	80			
			Traction Motor 60 Minute Rating		hp (kW)	<b>36</b> 28.8 (21.5)	<b>48</b> 28.8 (21.5)	28.2 (21)				
SIG		12			60 Minute Rating		20.0 (21.0)	رن.ن (۲۱.۵)	20.2 (21)			
FCTRIC	4	13 14			t		35.5 (26.5)		48.3 (36)			
FIECTRIC	4 4	14	Pump Motor		15 % Rating	hp (kW)	35.5 (26.5)	48.3 (36)	48.3 (36)			
ELECTRIC	4	14 15	Pump Motor Traction Motor		15 % Rating Type / Control Method		35.5 (26.5)	48.3 (36) AC / Transistor	48.3 (36)			
ELECTRIC	4	14	Pump Motor		15 % Rating			48.3 (36)				
ELECTRIC	4 4	14 15 16	Pump Motor Traction Motor Pump Motor		15 % Rating Type / Control Method Type / Control Method			48.3 (36) AC / Transistor AC / Transistor				
	4 4	14 15 16 17	Pump Motor Traction Motor Pump Motor Number of Speeds		15 % Rating Type / Control Method Type / Control Method	hp (kW)		48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Var				
	4 4 4 4 4 5	14 15 16 17 18 19	Pump Motor Traction Motor Pump Motor Number of Speeds Step Height	0	15 % Rating Type / Control Method Type / Control Method Traction / Pump	hp (kW) in. (mm)		48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Variable / 121.1 (536)				
OTHER ELECTRIC	4 4 4 4 5 5	14 15 16 17 18 19 50	Pump Motor Traction Motor Pump Motor Number of Speeds Step Height Floor Height	e 3rd and 4th Function	15 % Rating Type / Control Method Type / Control Method Traction / Pump	in. (mm)		48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Variable / 1.1 (536) 33.7 (855)				
	4 4 4 4 5 5	14 15 16 17 18 19	Pump Motor Traction Motor Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressur		15 % Rating Type / Control Method Type / Control Method Traction / Pump  Lowest Point	in. (mm) in. (mm) psi (bar)		48.3 (36) AC / Transistor AC / Transistor initely Variable / Infinitely Variable / 21.1 (536) 33.7 (855) 2248 (155)				

ERC80VH MAST DIMENSIONS										
Maximum Fork Height (TOF) +	Overall Lowered Ht.	Overall Extended Height w/Load Backrest	Overall Extended Height w/o Load Backrest	Free-Lift (TOF) w/ Load Backrest	Free-Lift (TOF) w/o Load Backrest					
in. (mm)	in. (mm) in. (mm)		in. (mm)	in. (mm)	in. (mm)					
2-STAGE LIMITED FREE-LIFT (LFL) MAST										
120 (3050)	84 (2134)	176 (4455)	149 (3783)	5 (150)	5 (150)					
143 (3650)	96 (2434)	193 (4884)	173 (4383)	5 (150)	5 (150)					
2-STAGE FULL FREE-LIFT	(FFL) MAST									
121 (3075)	84 (2134)	170 (4309)	152 (3857)	35 (900)	53 (1352)					
144 (3675)	96 (2434)	194 (4909)	176 (4457)	47 (1200)	65 (1652)					
3-STAGE FULL FREE-LIFT	(FFL) MAST									
173 (4415)	84 (2134)	223 (5649)	205 (5197)	35 (900)	53 (1352)					
185 (4715)	88 (2234)	235 (5949)	217 (5497)	39 (1000)	57 (1452)					
194 (4950)	92 (2334)	244 (6184)	226 (5732)	43 (1100)	61 (1552)					
218 (5550)	100 (2534)	268 (6784)	250 (6332)	51 (1300)	69 (1752)					

ERC100–120VH MAST DIMENSIONS											
Maximum Fork Height (TOF) +	Overall Lowered Ht.	Overall Extended Height w/Load Backrest	Overall Extended Height w/o Load Backrest	Free-Lift (TOF) w/ Load Backrest	Free-Lift (TOF) w/o Load Backrest						
in. (mm)	in. (mm) in. (mm) in. (mm)		in. (mm)	in. (mm)	in. (mm)						
2-STAGE LIMITED FREE-LIFT (LFL) MAST											
109 (2790)	85 (2138)	159 (4031)	144 (3657)	5 (150)	5 (150)						
133 (3390) 96 (2438)		183 (4631)	168 (4257)	5 (150)	5 (150)						
157 (3990)	108 (2738)	206 (5231)	192 (4857)	5 (150)	5 (150)						
2-STAGE FULL FREE-LIFT	(FFL) MAST										
110 (2815)	85 (2138)	160 (4056)	147 (3731)	35 (897)	48 (1222)						
134 (3415)	96 (2438)	184 (4656)	171 (4331)	47 (1197)	59 (1522)						
3-STAGE FULL FREE-LIFT	(FFL) MAST										
162 (4137)	85 (2138)	212 (5378)	200 (5058)	35 (897)	47 (1217)						
184 (4690)	92 (2338)	234 (5931)	221 (5611)	43 (1097)	55 (1417)						
208 (5290)	100 (2538)	258 (6531)	245 (6211)	51 (1297)	63 (1617)						

BATTERY AND COMPARTMENT SPECIFICATIONS												
	Compartment Dim			Battery Dim - Max						Max Capacity	Weight	
Truck Model	Width	Length	Height	"Х"	"Υ"	"Z"	Volts	No. of Cells	Plates per Cell	6 Hour Rate	Min	Max
		in (mm)		in (mm)			00110	per our	amp hr (kwh)	lb (kg)		
ERC080VH	45.4 (1152)	45.4 (1152) 39.2 (996)		5 (622) 45 (1143)	39 (990) 23	23.9 (608)	36	18	33	2300 (80.3)	3400 (1542)	4800 (2177)
ERC100VHS			.2 (996) 24.5 (622)				48	24	29	1800 (83.8)		
39" Compartment							80	40	15	1000 (77.6)		
ERC100VH							36	36	19	2300 (160.6)		
ERC120VH	45.4 (1152)	5.4 (1152)   45.7 (1161)   2	24.5 (622) 45 (114	45 (1143)	45.3 (1150)	23.9 (608)	48	24	33	1800 (83.8)	4000 (1814)	5500 (2517)
45" Compartment							80	40	17	1000 (77.6)		

Battery Type: "EO" (Without Cover)

Battery amp hr (kwh) capacity is max allowable per UL

Commercially available lead acid batteries may not necessarily reach these max limits

Battery Roller option reduces battery compartment height to 24.0" (609mm) & max battery height to 23.4" (595mm) Battery Compartment Length is measured front to rear. Battery Compartment Width is measured across the truck

Battery Notes - Conventional Charging (Opt G26201)

Battery Connector: 36 volt - Grey SB\*350 (Anderson Power Products® P/N 632062 or equivalent)
48 volt - Blue SB\*350 (Anderson Power Products® P/N 632162 or equivalent)
80 volt - Black SBE\*320 (Anderson Power Products® P/N E635963 or equivalent)

Handle (not required): SB\*350 and SBE\*320 (Anderson Power Products®: "A" TYPE (Grey) P/N 99562 or equivalent)

Battery Lead: Length 20" (508 mm), Position "B", 4/0 AWG

Battery Notes - Rapid / Fast Charging (Opt G26202)
Battery Connector: Requires Dual Positive / Negative Cabling terminating in (2) Female EBC-320 DIN Connectors (Anderson Power Products® P/N E32504-00X9 or equivalent)

Each individual DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-)

Battery Lead: Length 25" (635 mm), Position "B", Minimum Cable Size 4/0 AWG

# FOOT DIRECTIONAL CONTROL PEDAL (FDC) (OPTIONAL)

The foot directional control pedal is a highly productive directional/accelerator pedal. One pedal allows the operator to change direction and acceleration reducing operator movement resulting in increased productivity.

# **HYDRAULIC COMPONENTS**

A transistor control hydraulic system is powered by a brushless, AC induction motor with maintenance free wet spline coupling that joins the motor to the pump for long drive life and low noise. The motor and pump are mounted on rubber isolators for reduced noise and vibration. A combination of flexible wire-braid hoses and steel tubing is used to simplify the hydraulic plumbing. These hydraulic lines are carefully routed and held in place to reduce possible damage. A 10-Micron full flow hydraulic filter located in the return line protects the hydraulic system from contaminants and helps provide long life. A by-pass relief valve permits oil flow in the event of the filter clogging.

### HYDROSTATIC POWER STEERING

Hydrostatic power steering is standard and the all-hydraulic design gives precise, reliable control while eliminating mechanical linkages and road shocks at the steering wheel. An infinitely adjustable tilt steering column provides excellent operator comfort and visibility.

# **DRIVE/STEERING AXLE**

The drive axle consists of a three-piece cast ductile iron housing and is a full floating axle. The steering axle is a one-piece ductile iron casting mounted on

elastic cushions that reduce shock and provide a softer ride. The Continuous Stability System (CSS™) enhances truck stability in a simple, maintenance free design, without compromising uneven surface travel.

# MASTS\CARRIAGE\FORKS\LOAD BACKREST EXTENSION

Yale® Global Hi-Vis™ simplex, duplex and triplex masts provide excellent visibility. The mast features flush face design with geometrically matched, angled load rollers, which are canted, yet provide full-face roller contact. The mast front rail flange angle coupled with the inverted "J" inner channel and three degree mast rollers significantly reduces channel web milling and roller wear. Trunnion mast mounting allows masts to be mounted with the shortest possible load distance (center of front wheel to face of forks) to maximize truck maneuverability. The mounting is standardized for direct mast interchangeability on a variety of Yale truck models without modification. Class III six-roller carriages are standard on the ERC080VH and Class IV six-roller carriages are standard on the ERC100-120VH. Forks are "upset forged" from a single piece of high-strength steel giving added strength and thickness for wear. A 48" load backrest extension is standard.

### **FRAME**

The frame is a unitized construction, stress tested for durability. An integral step on both sides of the truck is provided for easy entry and exit. The truck has a two-piece floor plate that can be easily lifted out for service access. An easily removable counterweight top cover gives easy access

to components. A stamped steel springassisted hood allows easy changing of the battery. The battery compartment can be fitted with rollers.

### **ADDITIONAL FEATURES**

Additional features on the ERC-VH include an overhead guard, 42" forks, non-suspension seat, seat belt and an operator sensing system. An infinitely adjustable tilt steering column, rubber floor mat, and electronic horn are also standard.

## **OPTIONS**

Accutouch e-hydraulics Mini-levers Foot Directional Control Pedal Return to set tilt Telescoping Steering Column with Tilt Memory Rapid / Fast Charge Cooler / Freezer Package Wide tread Full suspension seats (with and without swivel) Battery rollers Overhead guard mounted headlights Lowered overhead guard LED and Halogen work light packages LED Dome / Reading light LED Brake / Tail / Back-Up light packages 8° Forward / 5° Back Tilt Integral Sideshifter 48, 80 volt Audible Alarm – Reverse Operation Light – Amber strobe Various type drive tires Type "EE" UL construction **Dual Rear View Mirrors** Panoramic Rear View Mirror Fire Extinguisher Accumulator Red (HI-VIS) ELR (Emergency Locking Retractor) Non-cinch Seat Belt Red (HI-VIS) ELR (Emergency Locking Retractor) Non-cinch Seat Belt with Start Interlock Low Mount Display

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Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application. Specifications are subject to change without notice

This truck meets all design specifications of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture

Classified by Underwriters' Laboratories, Inc. as to fire hazard only. The Yale products included in this document may be covered by US patent 6,684,148 and other patents pending.



Yale Materials Handling Corporation

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