

# J150XD-EC4

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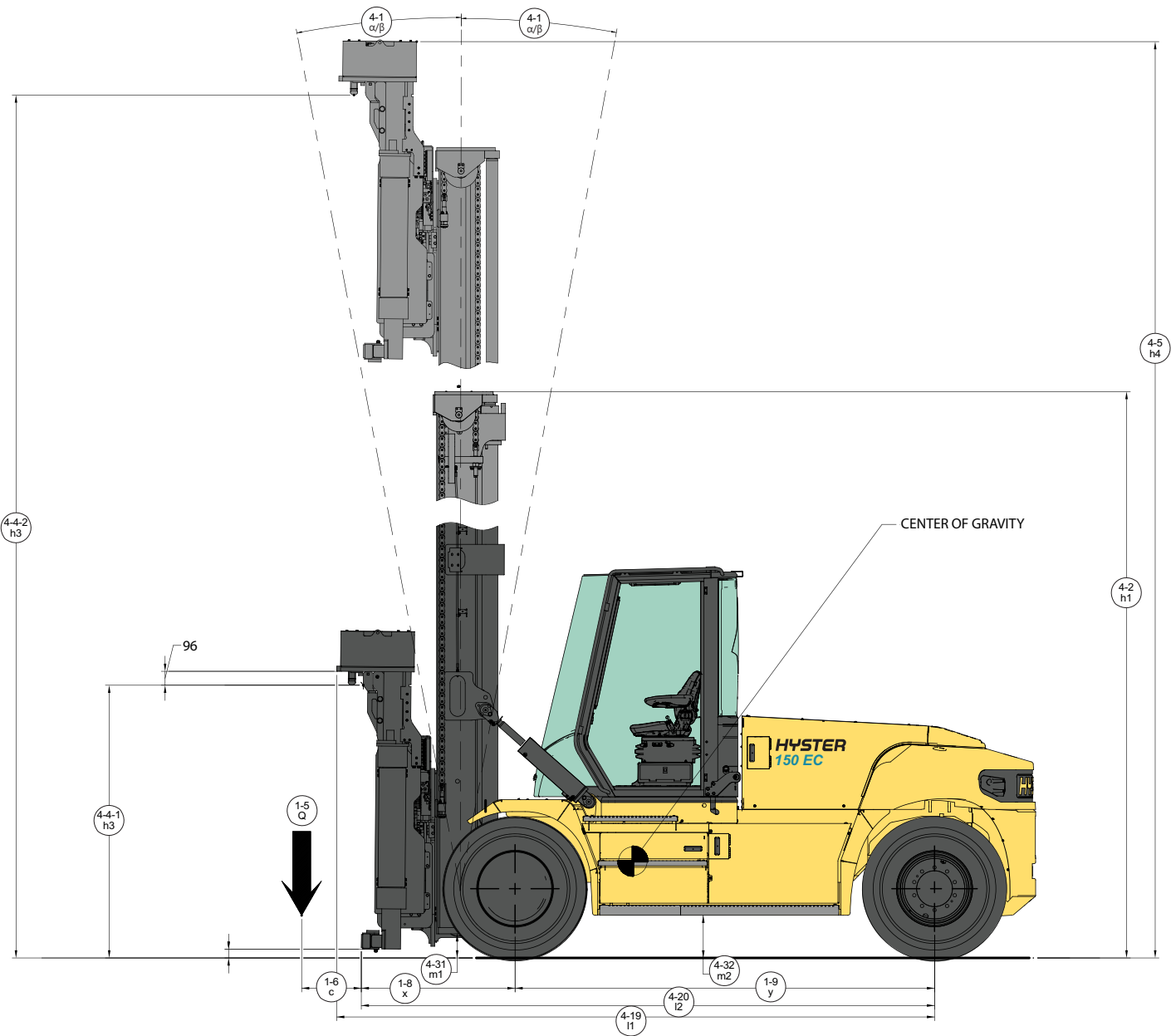


## ELECTRIC EMPTY CONTAINER HANDLER

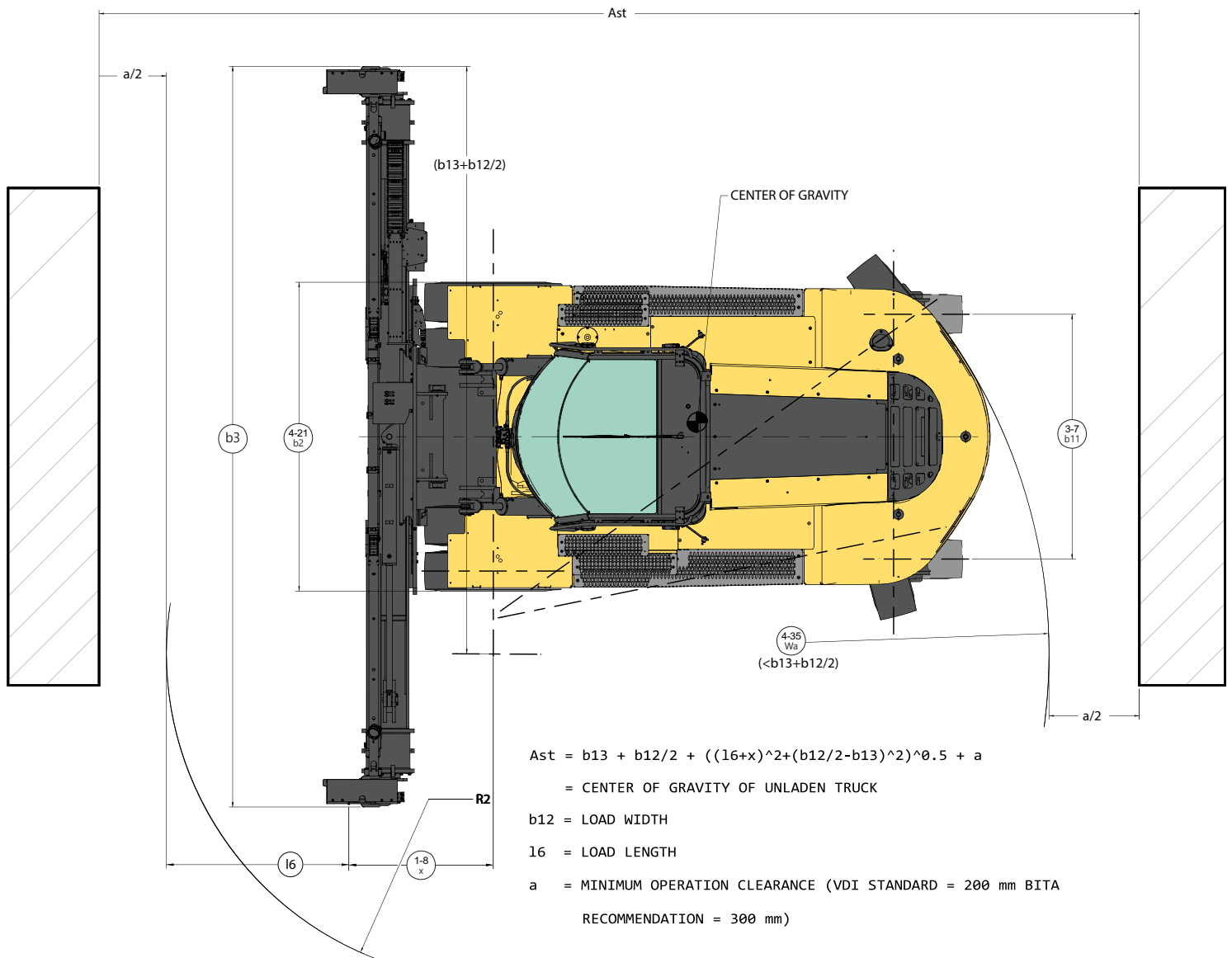
### PRODUCT TECHNICAL GUIDE



# DIMENSIONS



# DIMENSIONS



# J150XD-EC4 SPECIFICATIONS

GENERAL	1-1	Manufacturer				Hyster				
	1-2	Model designation				J150XD-EC4				
	1-3	Powertrain/drivetrain				Electric				
	1-4	Operator type				Seated				
	1-5	Load capacity at load center, nominal	Q	lb	kg	15,400		6,985		
	1-5-1	Load capacity at load center, max lift	Q	lb	kg	15,400		6,985		
	1-6	Load center	c	in	mm	48		1,219		
	1-8	Load distance	x	in	mm	44.6		1,133		
	1-9	Wheelbase	y	in	mm	130		3,300		
	1-10-1	Stacking height at first row (number x container height)		#		4/4				
WEIGHT	2-1	Service weight (1)		lb	kg	55,100		24,993		
	2-2	Axle loading with load, front / rear		lb	kg	60,343	10,157	27,371	4,607	
	2-3	Axle loading without load, front / rear		lb	kg	33,962	21,138	15,405	9,588	
WHEELS	3-1	Tire type		Type		Pneumatic				
	3-2	Tire size, front		0		12.00-20 20PR				
	3-3	Tire size, rear		0		12.00-20 20PR				
	3-5	Number of tires, front / rear ( X driven )		#		x4 / 2				
	3-6	Tread, front	b10	in	mm	100		2,541		
	3-7	Tread, rear	b11	in	mm	79		2,018		
	4-1	Mast tilt, forward / backward	α/β	Degrees		5 / 6				
DIMENSIONS	4-2	Height, mast lowered	h1	in	mm	264		6,693		
	4-4-1	Distance from ground to twistlocks, minimum	h3	in	mm	85		2,151		
	4-4-2	Distance from ground to twistlocks, maximum	h3	in	mm	474		12,061		
	4-5	Height, mast extended (2)	h4	in	mm	491		12,459		
	4-7-1	Height of overhead guard (closed cab)		in	mm	122.4		3,110		
	4-7-2	Height of overhead guard (closed cab w/ airco)		in	mm	122.4		3,110		
	4-7-3	Height of overhead guard (closed cab w/ strobe light)		in	mm	126.2		3,205		
	4-7-4	Height of overhead guard (closed cab w/ work lights)		in	mm	128.3		3,259		
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe light)		in	mm	127.4		3,235		
	4-8	Seat height to SIP	h7	in	mm	75		1,903		
	4-19	Overall length	l1	in	mm	214		5,441		
	4-20	Length to face of spreader	l2	in	mm	206		5,228		
	4-21	Overall width across drive tires	b2	in	mm	125		3,168		
	4-23	Width across spreader, retracted / extended	b1.20	in	mm	240	482	6,106	12,238	
	4-30	Sideshift		in	mm	+/- 15.7		+/- 400		
	4-31	Ground clearance, lowest point	m1	in	mm	9.6		245		
	4-32	Ground clearance, center of wheelbase	m2	in	mm	13.4		341		
	4-33	Aisle width with 20' container - no operating clearance (3)	Ast20	in	mm	343		8,722		
	4-33-1	Aisle width with 20' container - 7.9" (200mm) operating clearance (3)	Ast20	in	mm	351		8,922		
	4-33-2	Aisle width with 20' container - 10% operating clearance (3)	Ast20	in	mm	378		9,594		
	4-34	Aisle width with 40' container - no operating clearance (3)	Ast40	in	mm	534		13,558		
	4-34-1	Aisle width with 40' container - 7.9" (200mm) operating clearance (3)	Ast40	in	mm	542		13,758		
	4-34-2	Aisle width with 40' container - 10% operating clearance (3)	Ast40	in	mm	587		14,914		
	4-35	Outside turning radius	Wa	in	mm	180		4,573		
	4-36	Internal turning radius	b13	in	mm	70		1,777		
PERFORMANCE	SINGLE POWERTRAIN									
	5-1	Travel speed, with / without load (1)		mph	km/h	15	15	25	25	
	5-2	Lifting speed, with / without load		ft/min	m/s	106	118	.54	.60	
	5-3	Lowering speed, with / without load		ft/min	m/s	106	94	.54	.48	
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	5,400	5,400	31	31	
	5-6	Drawbar pull - max, with / without load		lb	kN	6,000	6,000	32	32	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load		%		10		13		
	5-8	Gradeability - max, with / without load		%		20		27		
ELECTRIC	6-1	Drive motor rating, S2 60 min		kW		46				
	6-2	Lift motor rating at S3 15%		kW		165				
	6-3	Battery type		Type		Li-ion				
	6-4-1	Battery capacity - 2 battery packs		kWh		139				
	6-4-2	Battery capacity - 3 battery packs		kWh		209				
	6-5-1	Battery weight - 2 battery packs (2)		lb	kg	149		3,774		
	6-5-2	Battery weight - 3 battery packs		lb	kg	152		3,867		
SPREADER	8-1	Type of drive unit		Type		AC Electric				
	8-3	Wheel drive / drive axle manufacturer / type		Type		Kessler / D81				
	8-4	Service brake		Type		Oil-immersed / wet disc				
	8-5	Parking brake		Type		Dry disc on drive axle				
	9-1	Spreader manufacturer / type		Type		Elme / 588TB				
	9-1-1	Pile slope, mechanical		in	mm	+/- 8.1		+/- 205		
	9-3	Size of containers		ft	ft	ISO 20' & 40'				
MISC	9-4	Sideshift (total)		in	mm	+/- 15.7		+/- 400		
	10-1	Working pressure for attachments		psi	MPa	203		14		
	10-2	Oil volume for attachments		gpm	l/m	26		100		
	10-3	Hydraulic oil tank, capacity		gal	l	29		109		
	10-5	Steering design		Type		Hydrostatic				
	10-6	Number of steering rotations		#		5.0				
	10-8	Towing coupling, type DIN		Type		Yes / Pin				

(1) Travel speed laden/unladen limited at 12.5 mph as factory default

(2) Battery slabs included if necessary.

(3) With 588TB spreader

# BATTERY SPECIFICATIONS

J150XD-EC4 BATTERY CHARGER SPECIFICATIONS												
Input voltage	Charge rate (kw)	Enclosure size						Charger plug cable length		Operating range		Manufacturer
		Height		Width		Thickness						
		in	mm	in	mm	in	mm	ft	M	F	C	
480V, 3 PHASE, 60HZ	10	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20°to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	36	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20°to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	45	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20°to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	75	65	1654	72	1822	20	503	25	7.62	-4° to 122°	-20°to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	90	65	1654	72	1822	20	503	25	7.62	-4° to 122°	-20°to 50°	BORG WARNER

Wall power cable is not included. The charger has an enclosure rating of IP54 and is equipped with emergency stop and anti-arc.

The battery charge time and battery run time tables are a helpful guide to visualize the truck run time with different batteries in different applications. (The tables are a guide only and not a replacement for a site survey and full power study.)

**Heavy** – High throughput, typically runs full capacity, runs either attachments or has high lifts

**Medium** – High throughput, runs near capacity without attachments or high lifts

**Light** – Lower throughput, runs less than rated capacity without attachments or high lifts

J150XD-EC4 BATTERY CHARGE TIME		
Battery capacity (kWh)	Charger power (kW)	Time to full charge (minutes)
68.7	50	82
137.4	50	165
137.4	80	103
137.4	90	92
206.1	50	247
206.1	80	155
206.1	90	137

J150XD-EC4 BATTERY RUN TIME (HOURS)			
Battery capacity (kWh)	Light application (14.5 kW/h)	Normal application (21.8 kW/h)	Heavy application (29 kW/h)
137.4	9.5	6.3	4.7
206.1	14.2	9.5	7.1

## FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Two 350V integrated lithium-ion batteries with battery management system	x	
One additional 350V lithium-ion battery pack		x
Traction motor rated 62 hp (46 kW) / peak 145 hp (108 kW)	x	
On-demand cooling fan	x	
Liquid cooling system for motors and controllers	x	
Performance modes selectable in integrated performance display	x	
Powertrain protection system	x	
Kessler D81 drive axle with wet disc brakes	x	
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable		x
Travel speed limiter when carrying container (adjustable)		x
12.00 - 20 20PR Trelleborg pneumatic bias ply drive and steer tires	x	
12.00 - R20 Michelin XZM radial drive and steer tires		x
12.00 - R20 Trelleborg radial drive and steer tires		x
12.00 - 20 Pneumatic shaped solid drive and steer tires		x
LIFT	STD	OPT
Hydraulic motor rated 99 hp (74 kW) / peak 223 hp (166 kW)	x	
On-demand load sensing hydraulic system	x	
2-stage non free lift mast for 4-high stacking	x	
Mast tilt - 5° forward / 6° back	x	
Mast tilt indicator - mechanical		x
Hydraulic accumulator		x
Pressure compensated lowering	x	
Hydraulic system temperature protection with performance de-rate		x
HANDLING	STD	OPT
Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks	x	
+/- 15/7" (400 mm) sideshift	x	
ERGONOMICS	STD	OPT
Enclosed operator cabin	x	
Manual tilt operator compartment for service	x	
Powered tilt operator compartment for service		x
Isolated cabin mounting for low noise and vibration	x	
Operator presence system	x	
Mechanical suspension seat	x	
Air suspension seat		x
Deluxe air suspension seat		x
Low backrest seat	x	
High backrest seat		x
Armrest on left side	x	
Cloth seat cover		x
Vinyl seat cover	x	
Seat heating		x
Seat ventilation		x
2-point high visibility seatbelt	x	
Lateral seat sliding mechanism		x

ERGONOMICS (CONTINUED)	STD	OPT
Floor mat	x	
Coat hook	x	
Front, top and rear wipers	x	
"H"-pattern front wiper (enclosed operator cabin)		x
"I"-pattern front wiper (enclosed operator cabin)	x	
Tinted operator compartment windows (doors, rear and top window)		x
Tinted operator compartment top window		x
Plexiglass shield in front of front window		x
Wire mesh installed on top of operator compartment		x
7" Integrated performance display	x	
Joystick hydraulic control integrated in control arm	x	
Steering wheel without spinner knob	x	
Steering wheel with spinner knob		x
Directional control on mini-levers or joystick		x
Electronic push button park brake	x	
Heater with adjustable speed fan (enclosed operator cabin)	x	
Telescoping & tilting steering column	x	
USB outlet inside armrest	x	
24-12 volt DC converter with 1 socket and 2 USB outlets	x	
24-12 volt DC converter with 2 sockets and 2 USB outlets		x
Air conditioning		x
Automatic climate control		x
Reading light		x
Sun shades on top and rear		x
Sun visors front window		x
Cloth trainer seat with 2-point seatbelt		x
Recirculation fan	x	
Additional recirculation fan		x
Accessory mounting bracket on cab front right pillar		x
Document holder on cab front right pillar		x
Heated top- and/or rear window		x
Radio preparation with 2 speakers and antenna		x
VISIBILITY	STD	OPT
Top window with armored glass (enclosed operator cabin)	x	
Steel bars under armored glass top window (enclosed operator cabin)		x
Interior wide angle mirrors	x	
Exterior mirrors mounted to cab	x	
Rear view camera system		x
Radar object detection system		x
High performance LED work lights		x
Two head lights mounted on front fenders		x
Four cabin mounted work lights		x
Two rearward work lights mounted on the cabin		x
LED stop/tail/brake lights	x	
Turn signals, hazard & marker lights (LED)		x


## FEATURES AND OPTIONS

OPERATION	STD	OPT
Air horn 112 dBA		x
Electric horn 105 dBA	x	
Visible alarm – amber strobe light, ignition activated		x
Audible alarm – reverse direction activated 82–102 dB(a), self-adjusting	x	
Audible alarm – reverse direction white noise		x
Forward / reverse motion alarm		x
Blue LED spotlight – rear / front and rear		x
Tire pressure monitoring system		x
Air conditioning shut-off with open door		x
Lockable battery disconnect switch	x	
Operator password (display) for truck start	x	
Seatbelt interlock for truck start		x
Power distribution group with fuses	x	
Fuses below 30 amps replaced by electric circuit breakers		x
Hyster Tracker™ wireless asset management - access / verification		x
Hyster Tracker™ wireless asset management - monitoring	x	
Auto greasing system for basic truck & outer mast		x
24 volt electrical system	x	
Steer wheel lug nut protection		x
Front and/or rear mud guards		x
Lifting eyes - 2 front and 2 rear		x
APPEARANCE	STD	OPT
Second capacity plate		x
Hyster yellow paint base truck	x	
Special paint base truck		x
Operator compartment special paint (complete cabin)		x
SUPPLEMENTAL	STD	OPT
Literature package	x	
Operator's manual	x	
12 months / 2,000 hours manufacturer's warranty, 24 months/4,000 hours manufacturer's powertrain warranty, 60 months / 10,000 hours / 270,000 ahr factory installed integrated li-ion battery warranty	x	





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