

EQ Line

LITHION
BATTERY TECHNOLOGY



EQ LINE PRELIMINARY SPECIFICATIONS ELECTRIC COUNTERBALANCE FORKLIFTS 48/80V, 1.6 - 3.5 TONNES

EP160T	EP25Q
EP200T	EP30Q
EP16Q	EP35Q
EP20Q	EP35QL

MATERIALS HANDLING MADE SIMPLE

EVERYTHING YOU NEED – AND NOTHING YOU DON'T

You can depend on these versatile forklifts to get the job done. Without fuss, frills or unnecessary features.

Designed for light or medium duty applications, both outdoor and indoor, they're reliable, robust and economical to operate. Just as you would expect from any Cat lift truck. But what will surprise you is their low purchase price...



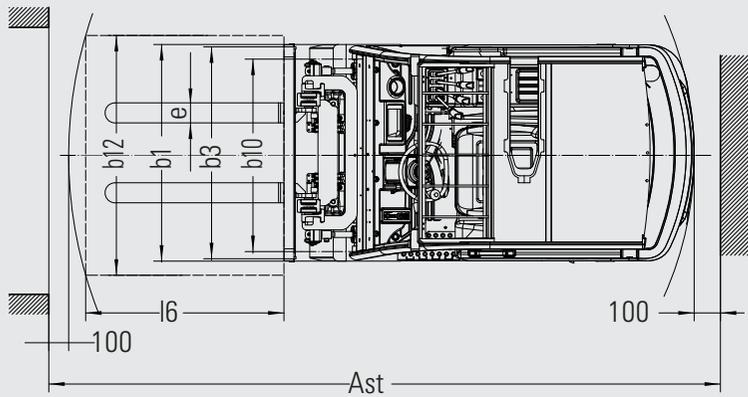
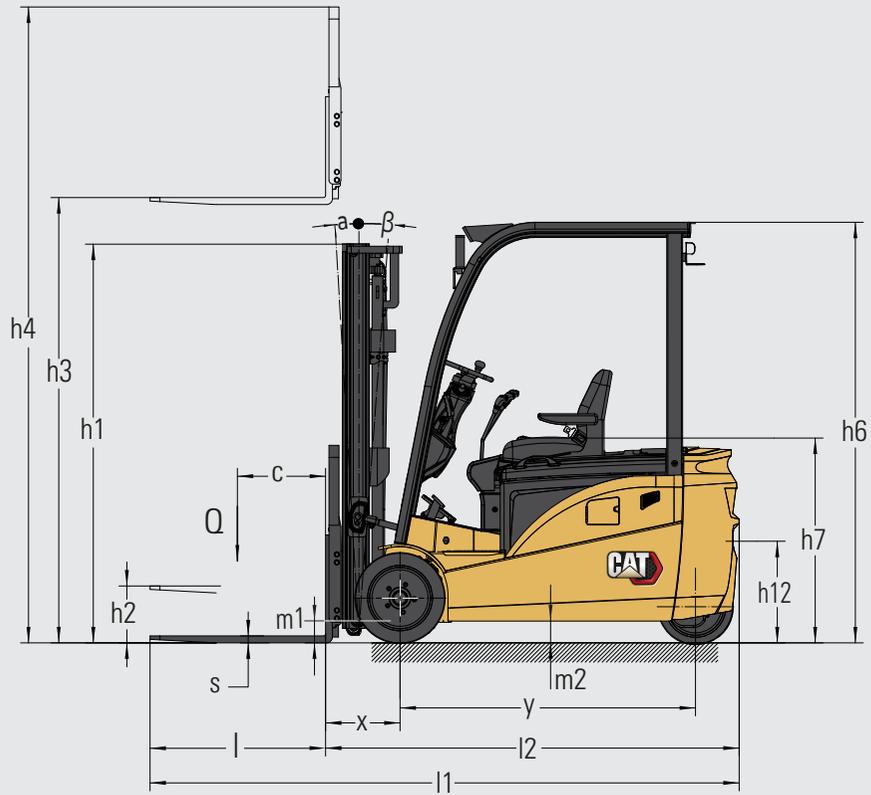
Characteristics				Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
Weight				EP16QT	EP20QT	EP16Q	EP20Q	EP25Q	EP30Q	EP35Q	EP35QL
1.1	Manufacturer			Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery
1.2	Manufacturer's model designation			Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated
1.3	Drive: (battery, diesel, LPG, petrol)			1600	2000	1600	2000	2500	3000	3500	3500
1.4	Operator type			500	500	500	500	500	500	500	600
1.5	Load capacity	Q	(kg)	381	386	372	377	473	478	483	483
1.6	Load centre distance	c	(mm)	1410	1410	1360	1490	1630	1700	1760	1760
1.8	Load distance, axle to fork face	x	(mm)								
1.9	Wheelbase	y	(mm)								
Wheels, Drive Train				2900	3200	3100	3520	3800	4280	4660	4890
3.1	Tyres: V = solid, L = pneumatic, SE = solid pneumatic - front / rear			3020/480	4670/530	4180/520	4910/610	5660/640	6530/750	7240/920	7810/880
3.2	Tyre dimensions, front			1220/1680	1400/1800	1490/1610	1700/1820	1620/2180	2060/2220	2040/2620	1880/3010
3.3	Tyre dimensions, rear										
3.5	Number of wheels, front / rear (x = driven)			Super elastic	Super elastic	Super elastic	Super elastic	Super elastic	Super elastic	Super elastic	Super elastic
3.6	Track width (centre of tyres), front	b10	(mm)	6.50-10-10PR	6.50-10-10PR	18x7-8	200/50-10	7.00-12-12PR	28x9-15-14PR	28x9-15-14PR	28x9-15-14PR
3.7	Track width (centre of tyres), rear	b11	(mm)	5.00-8-10PR	5.00-8-10PR	15x4.5/-8	15x4.5/-8	18x7-8-14PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR
Dimensions				2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2
4.1	Mast tilt, forwards / backwards	∅ / β	°	970	970	902	902	973	1004	1004	1004
4.2	Height with mast lowered	h1	(mm)	920	920	187	187	960	982	982	982
4.3	Free lift	h2	(mm)								
4.4	Lift height	h3	(mm)								
4.5	Overall height with mast raised	h4	(mm)								
4.7	Height to top of overhead guard	h6	(mm)								
4.8	Seat height	h7	(mm)								
4.12	Tow coupling height	h10	(mm)								
4.19	Overall length	l1	(mm)								
4.20	Length to fork face (includes fork thickness)	l2	(mm)								
4.21	Overall width	b1 / b2	(mm)								
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)								
4.23	Fork carriage iso 2328/30, FEM/A,B										
4.24	Fork carriage width	b3	(mm)								
4.31	Ground clearance under mast, with load	m1	(mm)								
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2	(mm)								
4.33	Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast	(mm)								
4.34a	Working aisle width with 800 x 1200 mm pallets, crosswise	Ast	(mm)								
4.34b	Working aisle width with 800 x 1200 mm pallets, lengthwise	Ast	(mm)								
4.35	Turning circle radius	Wa	(mm)								
4.36	Minimum distance between centres of rotation	b13	(mm)								
Performance											
5.1	Travel speed, with / without load		km / h	14/15	14/15	14/15	13/15	14/15	14/15	14/15	13/14
5.2	Lifting speed, with / without load		m / s	0.32/0.42	0.32/0.42	0.32/0.42	0.30/0.42	0.3/0.4	0.3/0.4	0.3/0.4	0.28/0.38
5.3	Lowering speed, with / without load		m / s	0.52/0.42	0.52/0.42	< 600	< 600	< 0.6	< 0.6	< 0.6	< 0.6
5.5	Rated drawbar pull, with / without load		N								
5.6	Maximum drawbar pull, with / without load (5 min short duty)		N								
5.7	Gradeability, with / without load		%								
5.8	Maximum gradeability with / without load		%	15/20	15/20	15/20	13/18	15/15	15/15	15/15	15/15
5.9	Acceleration time (10 metres) with / without load		s								
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Electric motor											
6.1	Drive motor capacity (60 min. short duty)		kW	11	11	4.5*2	4.5*2	16	16	16	16
6.2	Lift motor output at 15% duty factor		kW	12	12	8.6	8.6	16	16	16	16
6.3	Battery to DIN 43 531 / 35 / 36 A / B / C / no			Li-on	Li-on	Li-on	Li-on	Li-on	Li-on	Li-on	Li-on
6.4	Battery voltage		V / Ah	76.8 / 125 (206 optional)	76.8 / 125 (206 optional)	Li-on: 51.2 / 206 (277 optional)	Li-on: 51.2 / 206 (277 optional)	76.8 / 206 (277 optional)	76.8 / 206 (277 optional)	76.8 / 277 (412 optional)	76.8 / 277 (412 optional)
6.5	Battery weight (including container)		kg	160/200	160/200	Li-on : 450	Li-on : 450	200/240	200/240	200/240	200/240
6.6a	Energy consumption according to DIN EN 16796		kWh / h	4.26	4.76	4.21	4.69	6.43	7.01	7.78	7.78
6.6b	Energy consumption acc. to VDI cycle (3)		kWh / h								
Miscellaneous											
8.1	Type of drive control			AC	AC	AC	AC	AC	AC	AC	AC
10.1	Maximum operating pressure for attachments		bar	14.5	14.5	17.5	17.5	17.5	17.5	17.5	17.5
10.2	Oil flow for attachments		l / min	30	30	36	36	36	36	36	36
10.7	Noise level, value at operator's ear (EN 12053)		dB (A)	72	72	73	73	74	74	74	74
10.8	Towing coupling, type DIN 15170										

1) Depending on the type of mast

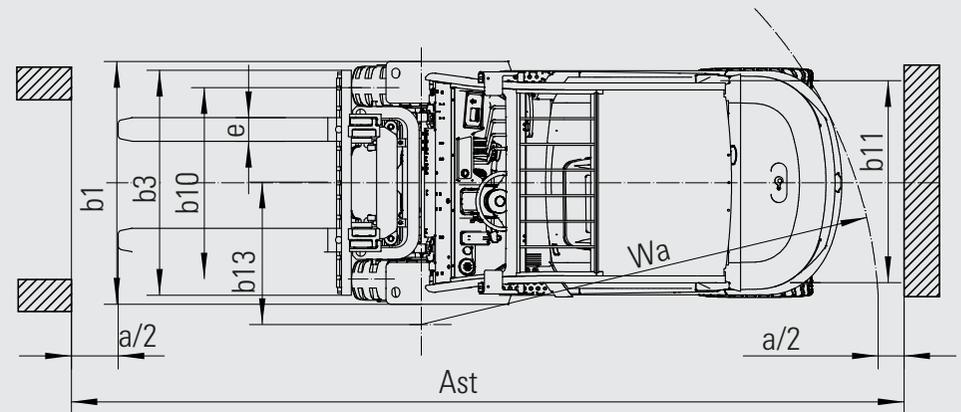
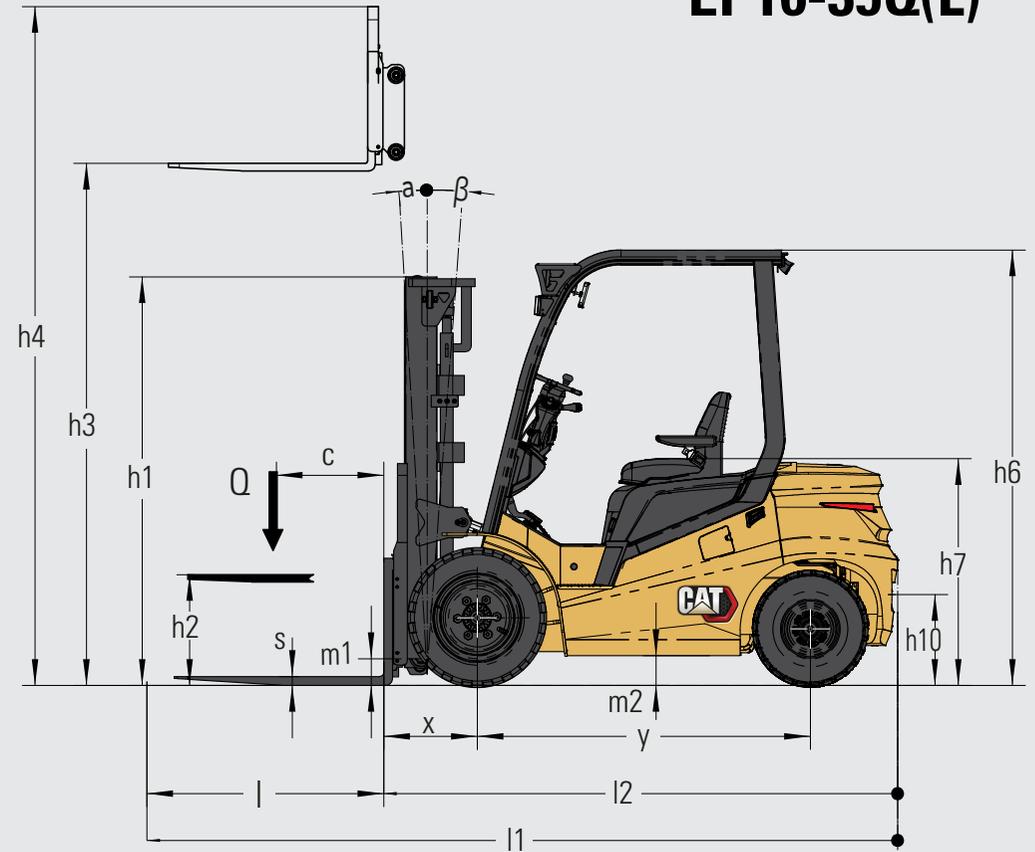
2) Custom design fork carriage

3) Cycles performed / cycles requested

EP16-20QT



EP16-35Q(L)



Mast Type	EP16-200T				Tilt forward/backward α/β°	EP16QT	EP20QT	EP16QT	EP20QT
	h3	h2	h1	h4		Q@c=500mm kg	Q@c=500mm kg	Q@c=600mm kg	Q@c=600mm kg
	mm	mm	mm	mm					
Simplex	3300	125	2145	4255	5/7	1450	1850	1280	1640
	4000	125	2545	4955	3/5	1350	1850	1190	1640
Triplex	4350	1110	2065	5305	3/5	1300	1700	1150	1510
	4500	1160	2115	5455	3/5	1250	1650	1100	1460
	4799	1200	2155	5755	3/5	1150	1450	1010	1280
	5000	1360	2315	5955	3/5	1050	1350	920	1190
	5500	1510	2465	6455	3/5	950	1150	830	1010
	6000	1710	2665	6955	3/5	650	850	560	740

Mast Type	EP16-20Q				Tilt forward/backward α/β°	EP16Q	EP20Q	EP16Q	EP20Q
	h3	h2	h1	h4		Q@c=500mm kg	Q@c=500mm kg	Q@c=600mm kg	Q@c=600mm kg
	mm	mm	mm	mm					
Simplex	3300	110	2203	4282	6/10	1450	1850	1300	1660
	4000	110	2603	4982	6/6	1350	1800	1210	1483
Triplex	4300	1153	2103	5280	6/6	1250	1600	1120	1300
	4500	1203	2153	5480	6/6	1150	1500	1020	1210
	4800	1303	2253	5780	6/6	850	1200	750	930
	5000	1403	2353	5980	6/6	750	1100	666	840
	5500	1553	2503	6480	3/6	650	900	575	660
	6000	1753	2703	6980	3/6	550	800	485	575

Mast Type	EP25Q				Tilt forward/backward α/β°	EP25Q	EP25Q
	h3	h2	h1	h4		Q@c=500mm kg	Q@c=600mm kg
	mm	mm	mm	mm			
Simplex	3300	130	2205	4274	6/10	2350	2110
	4000	130	2605	4974	6/6	2300	2070
Triplex	4000	1056	1980	4976	6/6	2200	1970
	4350	1181	2105	5326	6/6	2050	1840
	4500	1231	2155	5476	6/6	1850	1660
	4800	1331	2255	5776	6/6	1750	1570
	5000	1474	2398	5976	6/6	1550	1390
	5500	1708	2647	6476	3/6	1250	1110
	6000	1941	2865	6976	3/6	800	710

Mast Type	EP30Q				Tilt forward/backward α/β°	EP30Q	EP30Q
	h3	h2	h1	h4		Q@c=500mm kg	Q@c=600mm kg
	mm	mm	mm	mm			
Simplex	3300	140	2225	4379	6/10	2800	2520
	4000	140	2625	5079	6/6	2750	2470
Triplex	4000	921	2000	5079	6/6	2700	2430
	4350	1046	2125	5429	6/6	2500	2250
	4500	1096	2175	5579	6/6	2400	2150
	4800	1196	2275	5879	6/6	2200	1970
	5000	1339	2418	6079	6/6	2100	1880
	5500	1573	2652	6579	3/6	1600	1430
	6000	1806	2885	7079	3/6	1200	1070

Secondary full free lift height (without load backrest) +400mm
 Three-stage full free lift height (without load backrest) +320mm

Mast Type	EP35Q				Tilt forward/backward α/β°	EP35Q	EP35Q
	h3	h2	h1	h4		Q@c=500mm kg	Q@c=600mm kg
	mm	mm	mm	mm			
Simplex	3300	145	2335	4379	6/10	3300	2970
	4000	145	2735	5079	6/6	3100	2790
Triplex	4000	921	2000	5079	6/6	3050	2740
	4350	1046	2125	5429	6/6	2950	2750
	4500	1096	2175	5579	6/6	2800	2520
	4800	1196	2275	5879	6/6	2600	2340
	5000	1339	2418	6079	6/6	2450	2200
	5500	1573	2652	6579	3/6	2000	1790
	6000	1806	2885	7079	3/6	1300	1160

Secondary full free lift height (without load backrest) +400mm
 Three-stage full free lift height (without load backrest) +320mm

Mast Type	EP35QL				Tilt forward/backward α/β°	EP35QL	EP35QL
	h3	h2	h1	h4		Q@c=500mm kg	Q@c=600mm kg
	mm	mm	mm	mm			
Simplex	3300	145	2335	4379	6/10	3600	3300
	4000	145	2735	5079	6/6	3450	3100
Triplex	4000	1021	2100	5079	6/6	3450	3050
	4350	1146	2225	5379	6/6	3350	2950
	4500	1196	2275	5579	6/6	3150	2800
	4800	1296	2375	5879	6/6	2900	2600
	5000	1439	2518	6079	6/6	2800	2450
	5500	1673	2752	6579	3/6	2300	2000
	6000	1906	2985	7079	3/6	1700	1300

Secondary full free lift height (without load backrest) +300mm
 Three-stage full free lift height (without load backrest) +238mm



Mast Performance and Capacity

- h1 Height with mast lowered
- h2 Standard free lift
- h3 Lift height
- h4 Height with mast raised
- Q Lifting capacity, rated load
- c Load centre (distance)



ENTRY-LEVEL PRODUCTS WITH CAT LIFT TRUCKS QUALITY

Does your application really need a high-spec lift truck? If not, don't overspecify. Our EQ line offers just the right specification – with quality assured. Here's the choice:

- **Our famous high-spec products.** For critical tasks demanding 100% in terms of performance, productivity and efficiency. Jobs where anything less can seriously affect your business.
- **Our EQ line entry-level products.** For everyday jobs that simply require a dependable forklift. Less intensive applications with occasional or light use.

Our EQ line forklifts have everything you need to do the job, in a simple, straightforward package. Like all Cat products, their qualities include sturdy construction, easy maintenance, energy efficiency, robust performance, user-friendly design, and safety.

What's more, they're marked with the Cat Lift Trucks brand. This symbol of quality, dependability and performance gives total confidence. And, of course, they're backed by great service and support from our dealer network.

EQ line counterbalance trucks are equally at home in warehouse aisles or weather-beaten yards. This flexibility reduces your fleet needs and investment. Choose from three or four wheels, 48 or 80V battery power, and capacities from 1.6 to 3.5 tonnes. Whatever best fits your application – without overspecifying.

These forklifts are user-friendly without being unnecessarily luxurious. All controls are exactly where your drivers expect them to be. From the mechanical hydraulic levers to the auto-style pedals, they function intuitively. A comfortable seat and low vibration levels help further in creating the right conditions for productivity.

Our safety features minimise accident risks and safeguard your drivers, pedestrian staff, facilities, trucks and goods. We focus especially on comprehensive lighting kits, hazard warning features and clear vision.

Lithium-ion (Li-ion) batteries, fitted as standard, make the trucks even more cost-effective and productive. Key benefits include high energy efficiency, long lifespan, zero maintenance needs, fast charging and constant truck availability.

LOWER COST OF OWNERSHIP

- Li-ion batteries give maximum lifespan, energy efficiency and runtime, with no need for battery swaps, water top-ups or other maintenance.
- Easy servicing saves on time and cost.
- Robust construction ensures reliable operation with minimal servicing and repair needs.
- Effective sealing protects key components against water-related damage.
- Front and rear super elastic tyres offer a long service life, while protecting other components against vibration-related wear thanks to their excellent shock absorption.
- Non-marking super elastic tyre option reduces the need for floor cleaning.
- Cabin-ready overhead guard allows quick, easy and low-cost cabin installation.
- Cold store modification option (down to -18°C) prevents damage and maintains efficiency in extremely low temperatures.

UNMATCHED PRODUCTIVITY

- Li-ion technology saves time with fast onboard charging, including opportunity charging, so battery exchanges are unnecessary and the truck is always ready to work.
- Super elastic tyres enable reliable truck performance on uneven floors.
- Integrated and external charger options add flexibility: integrated for convenience and space saving, with simple plug-in to any suitable electrical socket; external for faster charging and high-demand use.
- Choice of simplex and triplex masts available: simplex offering a cost-effective, single-stage lifting approach for basic applications; triplex enabling greater lift heights, along with versatility for both low-clearance and high-rack operations.
- Standard hook-on side shift simplifies and speeds up pallet handling and placement.
- Optional fork positioner including side shift adds further adaptability and efficiency in handling varied loads.
- Increased travel and lift speed option boosts materials handling productivity.

SAFETY AND ERGONOMICS

- Familiar and intuitive controls, including conventional hydraulic levers, allow easy operation from day one with less need for training.
- Optional fingertip levers for hydraulics and forward/reverse selection provide precise control with minimal effort or strain.
- Seat suspension reduces vibration and ensures driver comfort.
- Luxury seat option maximises ergonomics, comfort and posture support, to minimise fatigue and optimise driver concentration and performance.
- Spacious operator compartment provides freedom of movement.
- Super elastic tyres further reduce vibration levels for operators.
- Glass roof option (or PVC on three-wheel models) keeps driver dry and comfortable, protects against both large and small falling objects, and maximises upward view.
- Optional front window with wiper maintains clear view in rainy or dusty conditions.
- Complete weatherproof cabin option can be fitted easily for work in wet or cold environments.
- Road light kit, including front and rear work lights, direction indicators and hazard lights, provides 'see-and-be-seen' safety, both on site and on roads.
- Rear blue spot is projected onto floor to warn pedestrians of reversing truck's approach.
- Strobe light maximises visibility to pedestrians and other truck operators, even in outdoor and low-light conditions.
- Reverse warning buzzer alerts surrounding workers to potentially hazardous situations.
- Parabolic rear-view mirror enhances all-round vision and reduces blind spots, for safer manoeuvring.
- Li-ion battery chemistry means no risk of hazardous gas or acid leaks.

EQ LINE LI-ION BATTERIES

Our EQ line trucks come equipped with lithium-ion (Li-ion) battery technology.

A great advantage of Li-ion is that it allows the use of opportunity charging. Instead of exchanging batteries between shifts, you can simply plug into a fast charger during short breaks. Your business will also enjoy the other efficiency, environmental and safety benefits outlined here.



LONGER LIFE

– 3 to 4 times lead-acid lifespan –
reduces overall battery investment



FASTER CHARGING

– enables full charge in as little as
1 hour with the fastest chargers



HIGHER EFFICIENCY

– energy losses during charging and
discharging are up to 30% lower, so
electricity consumption is reduced



NO BATTERY CHANGING

– fast opportunity charging –
15 minutes for several hours of
extra runtime – makes operation
convenient with just one battery and
minimises the need to buy, store and
maintain spares



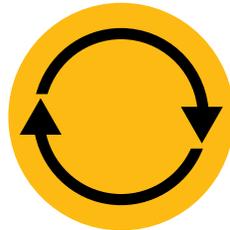
LONGER RUNTIME

– thanks to more efficient battery
performance and use of opportunity
charges, which can be given at any
time without damaging the battery or
shortening its lifespan



NO DAILY MAINTENANCE

– the battery stays on board the
truck for charging and there is
no need for water top-ups or
electrolyte checks



CONSISTENTLY HIGH PERFORMANCE

– with a more constant voltage curve
– maintains truck performance even
as battery charge gets low



INBUILT PROTECTION

– intelligent battery management
system (BMS) automatically
prevents excessive discharge,
charge, voltage and temperature, as
well as virtually eliminating misuse

info@catliftruck.com | www.catliftruck.com

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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications, or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your Cat lift trucks Dealer. Cat Lift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.



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