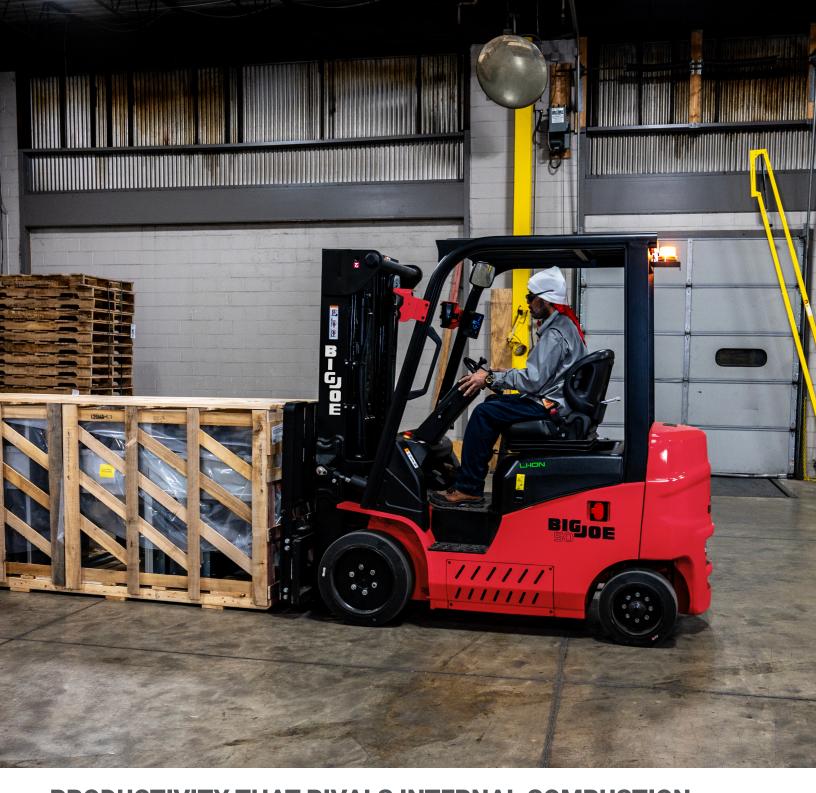






SPECIFICATIONS



PRODUCTIVITY THAT RIVALS INTERNAL COMBUSTION. SAVINGS THAT START ON DAY 1

Looking to electrify your internal combustion fleet? This is the solution. The LCE50S is designed for high productivity in warehouse and logistics operations. Big Joe's purpose-built, integrated Lithium-ion battery and powertrain deliver high performance in a package that was designed with operator comfort and productivity in mind.



Integrated Lithium: Power That Means Business

The UL-recognized Lithium-ion battery is designed and manufactured by Big Joe, in our state-of-theart, automated facility to deliver the highest levels of quality, durability and reliability. The battery pairs seamlessly with the truck, requiring no additional displays, connection ports, power buttons or other complications. Simply buckle up, turn the key, release the parking brake and go.

Advanced Electrical System

Big Joe AC controller technology delivers high performance efficiently while significantly reducing maintenance costs and extending the vehicle's service life. The battery management system continuously monitors performance during operation and charging to optimize the battery's service life.

A Drivetrain for High Productivity and Low Operating Cost

AC drive motors deliver fine inching control when precision matters, while also delivering high torque and smooth acceleration when it's time to get moving. When it's time to stop, regenerative motor braking recharges the battery, while standard wet disc brakes provide additional brake performance when needed. Operators can appreciate the performance and lack of engine noise. Business owners can appreciate the lack of fuel costs and not needing to worry about unexpected - and expensive - engine breakdowns.

FEATURES

Charging Made Easy

Every LCE50S forklift comes standard with an onboard charger that plugs into a typical single-phase 120V or 240V wall outlet, allowing you to recharge almost anywhere. For operations that require faster charge rates, offboard chargers that conveniently connect to the truck's integrated charge port are available.



Operator Compartment: Your Employee's Office

The operator reaps the benefits of a wide-open operator compartment, large step, chamfered hood and natural operating position, all thanks to the integrated design of the battery. For operators accustomed to internal combustion forklifts, LCE50S feels natural.



Ergonomic controls are within easy reach of the operator and allow for smooth, precise load control. Energy efficiency is optimized since the hydraulic pump only activates when flow is needed and utilizes proportional control.





Remote Work Isn't Just for the Office

LCE50S comes standard with a digital LCD display that enables wireless programming and diagnostics via Bluetooth or the standard telematics system that includes cloud-based maintenance monitoring, GPS tracking and related data services. When maintenance is required, features like a gas-spring assisted hood, removable floor plates and covers, and a design philosophy centered on simplicity help make the technician's job easier.

RUN TIMES

Power to Get the Job Done

Run times in the tables below are provided as a guide and do not account for all factors that may affect run time. It is highly recommended to perform a power study to more accurately determine your battery size and charging needs. Big Joe forklifts with Lithium-ion batteries come standard with telematics that enable monitoring of truck run time, charge time, energy usages and many other data points. This information can help you to make the most of your equipment and drive down operating costs.

Tailored to Your Specific Needs

Based on experience helping customers electrify their fleets and take advantage of the benefits of integrated Lithium-ion, Big Joe has categorized applications into three main types to help estimate run time:

Light Duty Light duty applications, in terms of energy usage, account for a large portion of customer use

cases. These are applications with level surfaces - where the truck typically handles 50% or less of

its rated capacity.

Medium Duty Medium duty applications are very common and involve handling loads that typically exceed 50% of

the truck's rated capacity. There may be occasional:

Operation up and down ramps

· Lifting to upper rack heights

• Use of attachments such as fork positioners and multi-pallet handlers (i.e. single-doubles)

Heavy Duty Heavy duty applications are not as common and include frequent:

Operation up and down rampsHandling loads at or near the truck's capacity

Lifting to upper rack heights

• Use of heavy duty attachments (clamps, rotators, push-pulls and turrets)

Stay Up and Running

The forklift's digital display includes a clear and easy-to-read battery indicator that shows the current state of charge. This helps operators to know exactly how much charge remains and remember to recharge as planned. Now, thanks to Big Joe's progressive warning system, the operator will be alerted should the battery state of charge fall too low. A lift interrupt and multiple levels of traction speed reduction help give the operator plenty of time to get to a charger without fear of over-discharging the battery.

LCE50S Run Time¹											
		Application Intensity									
Battery Capacity (kWh)	Light Duty	Medium Duty	Heavy Duty								
18.4	6h	3h 30m	2h 30m								
36.8	12h	7h	5h								

^{1.} Run times are provided for purposes of estimating battery and charger requirements and are not a guarantee. Run times are from fully-charged battery to lift interrupt. Actual run times vary widely based on truck duty cycle, ambient conditions and other factors. A product demo and/or power study are highly recommended.



Flexible Charging That Works for You

Thanks to the in-house design and expertise of Big Joe, the charger, battery and forklift work seamlessly together. Big Joe's UL-certified chargers automatically adjust power based on the state of the battery in order to minimize charge time while optimizing the battery's overall service life.

To help make charging easy, all Big Joe LCE50S models come standard with an onboard charger that can accept both 120VAC and 240VAC, single-phase input. Cables are included for both supply voltages. The onboard charger automatically identifies input voltage and charges the battery accordingly.

For faster charging, optional offboard chargers, also called "wall chargers," are available. Offboard chargers are typically hard-wired and are capable of faster charge rates. A power study is recommended in order to select the optimal battery and charger combination for your application's unique needs. For convenience, all LCE50S models include a charge port for offboard power, accessible without opening the hood or removing panels.

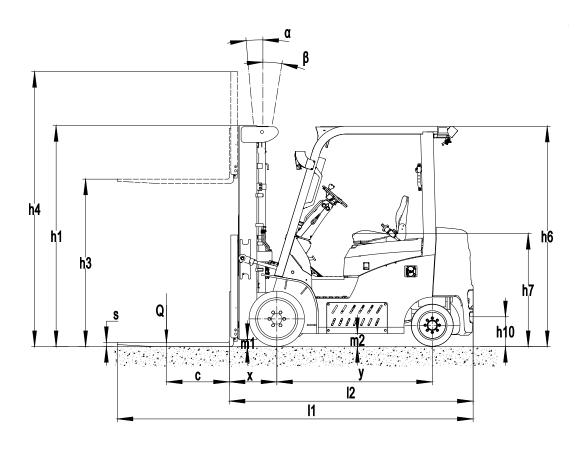
Regardless of which charger you pick, the design is plug and play. That means minimal operator training and input is needed to keep your operation running smoothly.

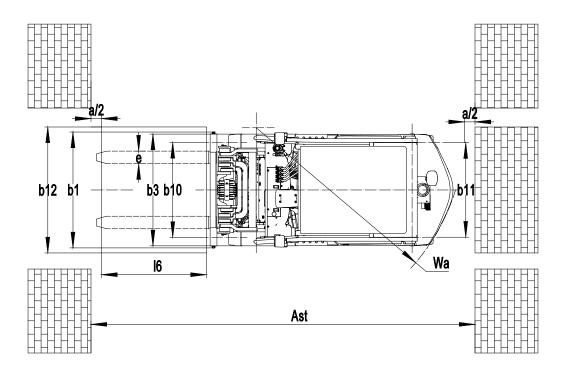
Charger Specifications								,				
	kW	Onboard Charger			Offboard Three-Phase Chargers							
Charger Output Power		1.2	/	2.8	8	16	8	16	8	16		
Input Voltage	VAC	120	/	240	208/220/240		480		6001			
Input Current	Α	15	/	15	35	35 72		36	12	20		
Output Current @ 80VDC	A 15 / 35 100 200		200	100	200	100	200					
LCE50S Charge Time ²	LCE50S Charge Time ²											
Battery Capacity (kWh)	18.4	13h	/	5h 45m	2h	1h 45m	2h	1h 45m	2h	1h 45m		
battery capacity (kwii)	36.8	26h	/	11h 15m	4h	2h	4h	2h	4h	2h		

^{1.} Chargers with 600V input are for Canadian market only.

^{2.} Charge times shown are estimates only and represent charging under ideal conditions and proper power supply to the charger. Charge times are based on recharging from lift interrupt to fully-charged.

DIAGRAMS





SPECIFICATIONS

	1.1	Manufacturer			Big Joe
ark	1.2	Model designation			LCE50S
ı ma	1.3	Drive			Electric
hing	1.4	Operator type			Seated
Distinguishing mark	1.5	Load capacity	Q	lb.	5000
	1.6	Load center distance	С	in.	24
Di	1.8	Load distance, center of drive axle to fork	х	in.	17.9
	1.9	Wheelbase	у	in.	58.5
e ±	2.1	Service weight		lb.	9240
Service weight	2.2	Axle loading, laden (front / rear)		lb.	11536 / 3120
S ×	2.3	Axle loading, unladen (front / rear)		lb.	4396 / 5102
	3.1	Tire type			Cushion
s	3.2	Tire size, front			21x7-15
assi	3.3	Tire size, rear			16x6-10.5
Tires/chassis	3.5	Wheels, number (front/rear) x=drive wheels			2x / 2
F	3.6	Tread width, front	b10	in.	36.6
	3.7	Tread width, rear	b11	in.	35.6
	4.1	Tilt of mast/fork carriage forward/backward	a/ß	۰	6/5
	4.2	Retracted mast height	h1	in.	83.1
	4.3	Free lift	h2	in.	58.7
	4.4	Lift height	h3	in.	189
	4.5	Height, mast extended w/std LBR	h4	in.	231.1
	4.7	Height of overheard guard (cabin)	h6	in.	83.1
	4.8	Seat height / standing height	h7	in.	42.9
ons	4.12	Tow coupling height	h10	in.	10.6
Dimensions	4.20	Length to face of forks	12	in.	91.7
)im	4.21	Overall width	b1/b2	in.	43.0
_	4.22	Fork dimensions	sxexl	in.	1.6 x 4.8 x 42
	4.23	A, B fork carriage class / type A, B			2A
	4.24	Fork carriage width	b3	in.	40.9
	4.31	Ground clearance, laden, below mast	m1	in.	4.0
	4.32	Ground clearance, center of wheelbase	m2	in.	4.3
	4.34.1	Right angle stack aisle width 1		in.	96.3
	4.35	Turning radius	Wa	in.	78.4
m l	5.1	Travel speed, laden/unladen		mph	10.6 / 10.6
Data	5.2	Lifting speed, laden/unladen		fpm	120 / 126
nce	5.3	Lowering speed, laden/unladen		fpm	98 / 98
rma	5.8	Max gradeability, laden/unladen		%	17 / 30
Performance Data	5.10	Service brake			Hydraulic
<u>a</u> .	5.11	Parking brake			Mechanical
	6.1	Drive motor rating S2 60min		kW	15
Electric	6.2	Lift motor rating at S3 15%		kW	26
	6.4.1	Battery capacity ²		kWh	36.8
	6.4	Battery voltage / nominal capacity ²		V/Ah	80/460
lar	10.1	Operating pressure for attachments		PSI	2750
Additional	10.2	Oil flow for attachments		gpm	8.5 - 16
Adc	10.5	Steering design			Hydraulic

Basic right angle stack (add load length and clearance)
 Alternate battery sizes available - see standard and optional equipment list

MAST SPECIFICATIONS

LCE50S													
Mast Type	Overall Dimensions (in.) ¹											Rated Capacity	
	Lift Height (Top of Forks)	Lowered Height	Extended Height				Free Lift Height				(lb.) at 24" Load Center²		
			no LBR	42" LBR	48" LBR	60" LBR	no LBR	42" LBR	48" LBR	60" LBR	Carry Height	Max Fork Ht	
2-Stage Limited Free Lift	81	61.6	101.6	123.6	129.5	141.3	4.5				5000	5000	
	189	83.1	214.8	231.1	237.0	248.8	57.8	40.9	35.0	23.2	5000	4700²	
3-Stage Full Free Lift	197	90.0	223.0	239.1	245.0	256.8	64.7	47.8	41.9	30.1	5000	4700²	
Tree Life	216.5	100	242.6	258.7	264.6	276.4	74.5	57.7	51.8	40.0			
4-Stage Full Free Lift	258	87.6	281.0	300.2	306.1	318.0	72.0	45.4	39.5	27.7	4400	1980	



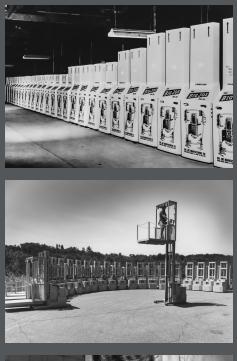
- LBR = Load Backrest Extension, measured from top face of fork to top of LBR
 Rated capacities shown with pneumatic-shaped solid tires. Rated capacities reduced by 200 lb. when equipped with hang-on sideshifter or fork positioner
 Additional lift heights available by request

STANDARD/OPTIONAL EQUIPMENT

StandardOptional

	80V electrical system	•
m	Weather-resistant IPX4 rating, suitable for most outdoor use	•
Electrical System	Brushless AC motor drive system w/regenerative braking	•
ctric	Brushless AC hydraulic pump motor	•
Ele	Transistor motor controllers with infinite speed control	•
	Corner speed control	•
	UL-Recognized 36.8kWh (80V / 460 Ah) integrated lithium-ion battery	•
	UL-Recognized 18.4kWh (80V / 230 Ah) integrated lithium-ion battery	0
	Onboard 1.2kW / 2.8kW battery charger for use with 120V / 240V AC single-phase power (15A / 35A)	•
ing	320A DIN connector for offboard charging	•
Battery and Charging	UL-Certified offboard 1.2kW / 2.8kW battery charger for use with 120V / 240V AC single-phase power (15A / 35A)	0
Battery a	UL-Certified offboard 8kW battery charger for use with 208V / 220V / 240V AC three-phase power (100A)	0
	UL-Certified offboard 8kW battery charger for use with 480V AC three-phase power (100A)	0
	UL-Certified offboard 16kW battery charger for use with 208V / 220V / 240V AC three-phase power (200A)	0
	UL-Certified offboard 16kW battery charger for use with 480V AC three-phase power (200A)	0
	Telemetry with over-the-air updating	•
ے ا	Dry drum service brakes	•
Drive System	Foot-applied / foot-released parking brake lever	•
	Power-assisted steering	•
Wheels & Tires	Smooth cushion tires	•
Wh & T	Non-marking smooth cushion tires	0
	3-stage full free-lift mast	•
	Mast tilt: 6° forward 5° backward	•
+	Hook type carriage	0
men	Hook type integral sideshifting carriage	0
quip	Hook type carriage with hang-on sideshifter	•
Front End Equipment	Hook type carriage with hang-on sideshifter and fork positioner	0
Fron	42" hook type standard taper forks	•
-	42" high load backrest	•
	48" high load backrest	0
	60" high load backrest	0

	3-way hydraulic control valve	0
	4-way hydraulic control valve	•
	1 auxiliary hose group	0
SO	2 auxiliary hose group	•
Hydraulics	2 auxiliary hose extension kit for use with attachments (assembly required)	0
_	Quick-disconnect (Qty 2) kit for use with auxiliary hose extension kit	0
	Clamp interlock (required for installation of clamping attachments)	0
	2-way adjustable full-suspension vinyl seat	•
ent	Entry assist grab handle	•
artm	Rear grab handle with integrated horn button	•
dwc	Cup holder	•
Operator Compartment	Digital LED display with Bluetooth service connectivity	•
Ope	Steering wheel with integrated spinner knob	•
	12V accessory charging port	•
	LED light package (headlights, brake lights, turn signals)	•
	LED strobe light	•
ırms	Rear-facing blue spot light	•
Lights and Alarms	Front-facing blue spot light	0
s and	Back-up alarm	•
ight	Self-adjusting back-up alarm	0
7	Horn	•
	White noise sound generator (always on)	0
	Left and right red side curtain lights	0
nty	84 months / 12,000 hours - Integrated lithium-ion battery warranty	•
Warranty	36 months / 6,000 hours - Frame & powertrain warranty	•
	24 months / 4,000 hours - Full truck warranty	•













Established in 1951, Big Joe is a customer-driven North American material handling equipment company. We distribute innovative products for in-between-handling applications, purpose-built counterbalanced lithium forklifts, and market-leading autonomous solutions. Based in Madison, Wisconsin, we provide engineering expertise, customer service, aftermarket parts, and warranty support to our extensive dealer network and customers.



Certification: Big Joe lift trucks are built in compliance with ANSI B56.1 and OSHA section 1910.178(A)(2). Lift trucks specifications are subject to change without notice. Any specifications critical to the intended application of the forklift should be reviewed with your Big Joe dealer. Images may show optional equipment not available in all regions.



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